



ZOOLOGICAL  
CATALOGUE OF  
AUSTRALIA

2

HYMENOPTERA

FORMICOIDEA

VESPOIDEA

SPHGOIDEA











**Bureau of Flora and Fauna, Canberra**

**ZOOLOGICAL  
CATALOGUE OF  
AUSTRALIA**

**Volume 2**

**HYMENOPTERA :**

**FORMICOIDEA, VESPOIDEA AND SPHECOIDEA**

**Australian Government Publishing Service  
Canberra 1985**

© Commonwealth of Australia 1985  
ISBN for series: 0 644 02840 8  
ISBN for Volume 2: 0 644 03922 1

***Zoological Catalogue of Australia***

The compilation of the *Zoological Catalogue of Australia* is conducted under the auspices of the Bureau of Flora and Fauna, B. J. Richardson, Assistant Director (Fauna).

D. W. Walton, Executive Editor

**Vol. 2**

**HYMENOPTERA : Formicoidea**

by

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**HYMENOPTERA : Vespoidea and Sphecoidea**

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# CONTENTS

Editorial Preface	v
Formicoidea: Introduction	1
Formicidae	5
Nothomyrmecinae	5
Myrmecinae	6
Pseudomyrmecinae	17
Ponerinae	18
Dorylinae	52
Leptanillinae	53
Myrmicinae	53
Dolichoderinae	92
Formicinae	107
Vespoidea and Sphecoidea: Introduction	150
Masaridae	154
Eumenidae	160
Vespidae	208
Sphecidae	218
Appendix I Museum Acronyms	304
Appendix II Abbreviations	305
Taxonomic Index: Formicoidea	306
Taxonomic Index: Vespoidea and Sphecoidea	349
Publication date of the previous volume	381



Map 1. States, catchment areas and coastal zones of Australia



## EDITORIAL PREFACE

### INTRODUCTION

An objective of the Australian Biological Resources Study is to stimulate research and publications on the taxonomy and distribution of Australian fauna and flora. Consistent with this aim, the *Zoological Catalogue of Australia* was conceived as a concise, computer-based data bank consisting of current taxonomic and biological knowledge of the Australian fauna, accessible to all interested in such information. As the project developed, the advantages of publication of this information were recognised.

Data for inclusion in the *Catalogue* are assembled in four separate files: a genus taxonomic arrangement file, a species taxonomic arrangement file, a genus available name file and a species available name file. The contents of appropriate files are then integrated by computer. This methodology yields a standard format which will be maintained throughout the volumes of the *Catalogue* and provides consistency in the data. The format and style of presentation are, therefore, the responsibility of the Bureau of Flora and Fauna. The authors are responsible only for the information content.

Each volume of the *Catalogue*, treating specific taxa, will cite by name and original reference all species known from Australia. The species are arranged taxonomically by family and genus. Information for each species includes synonymy, literature citation, location/status of the type material and type locality for each available name in synonymy, a brief summary of geographical distribution and ecological attributes, and important references on various aspects of the biology. It is designed to serve primarily as a bibliographic directory to the most comprehensive and recent information available on each species.

This data base is intended to provide a substantial assessment of current knowledge and to stimulate and provide a starting point for future investigations. It is estimated that the Australian fauna exceeds 150 000 species of which about half have yet to be recognised and described. As knowledge of the Australian fauna advances, the data base will be updated and expanded.

### TAXONOMIC INFORMATION

Nomenclature in the *Catalogue* adheres to the provisions established in the International Code of Zoological Nomenclature. The author and date of all names appearing in the *Catalogue* are presented so that the user may understand the nature and relationships of the names and all names appear in their legitimate form, not as they appeared in their original presentation. The valid genus and species group names and their allocation to families are determined by the contributors. No new genus or species group names are introduced in the *Catalogue* although new combinations may be established. Synonymies do not include new combinations. Treatment of family group names is not included.

### ECOLOGY AND DISTRIBUTION

Information on ecology and distribution is given with each valid species. The ecological descriptors are general terms derived from a list prepared by the Bureau of Flora and Fauna. These descriptors act as computer search terms for use with the data base.

Distribution data are based on a standardised list of computer search terms established by the Bureau of Flora and Fauna. Both political and geographical region descriptors are included (see map). Political areas include the adjacent waters. Terrestrial geographical terms are based on the drainage systems of continental Australia, while marine terms are self explanatory except as follows: the boundary between the coastal and the oceanic zones is the 200 m contour; the Arafura Sea extends from Cape York to 124°E longitude; and the boundary between the Tasman and Coral Seas is considered to be the latitude of Fraser Island, also regarded as the southern terminus of the Great Barrier Reef. Ecological or distributional terms in parentheses imply that the information is unconfirmed but, in the opinion of the contributor, likely to be correct. Terms for terrestrial habitat or vegetation type follow Specht, R.L. (1970). *Vegetation*. pp. 44-67 in Leeper, G.W. (ed.) *The Australian Environment*. 4th edn. Melbourne : CSIRO-Melbourne Univ. Press.

## BIBLIOGRAPHIC INFORMATION

Where possible, selected references are provided as an introduction to the biology of a species. Literature citations throughout the *Catalogue* are given in full. Older works, with extended subtitles, in some cases have been shortened but only if their identity is preserved. Serial titles are abbreviated in a manner designed to facilitate library research. The number and variety of sources for serial abbreviations employed by workers of different nationalities and among the various taxa precluded use of a standard guide. References or titles originally issued in a script other than Roman and lacking a Romanised translation are transliterated with the original language shown in brackets. Common abbreviations are listed in Appendix I. Acronyms of museums or collections, given as part of the Type data, are defined in Appendix II.

## ACKNOWLEDGEMENTS

Within the Bureau of Flora and Fauna, Richard Longmore, Janet Godsell, Barry Richardson and Keith Houston assisted in the editing of the volume. David Berman and Chris Curtis managed the data base and Wendy Riley, Cindy Wolter and Cindy Warhurst the entry and revisions of the data.

To all those involved, grateful acknowledgement is extended.

D. W. Walton



# FORMICOIDEA

Robert W. Taylor and D.R. Brown

## INTRODUCTION

Ants are among the most ubiquitous, abundant and familiar of insects. They are a group of great ecological importance in most habitats found in Australia, ranging from rainforests to deserts, from the cold mountains of the southeast to the tropical plains of the far north. The fauna is estimated to include at least four thousand species, possibly many more. This is about three times the number of scientific names available in the literature, and more than twice the number of species currently recognized in collections (Taylor 1979,1983).

Ants were well represented among the first Australian insects returned to Europe for scientific study. A number of species in the collections of Joseph Banks and Daniel Solander were collected in 1770, during Captain James Cook's first voyage of discovery to eastern Australia. These were described by J.C. Fabricius in 1775, in the first publication ever to have contained scientific descriptions of Australian endemic animals. The Fabrician insect species, in fact, were described several years before any Australian endemic vertebrates were named.

There have been several checklists of the names available for Australian Formicidae. All were incomplete for their time and all are now out of date. They include the works of Dalla Torre (1893), Gustaf Mayr (1876) and W.W. Froggatt (1905), along with the rather more satisfactory coverage of the fauna in the world checklists of Carlo Emery, published in Wytzman's monumental *Genera Insectorum* (Emery 1910,1911,1912,1921,1922,1925). In most genera, the tally of species accumulated in a piecemeal fashion, and most species have never been the subjects of critical, let alone modern, synthetic monographic studies. Moreover, many of the species-group names of the past were first proposed with subspecific status, so that an infrageneric classification is implicit in the nomenclature. Overall, this arrangement will bear little resemblance to the structured products of future revisionary studies in which it is probable that most "subspecies" will be elevated to full species rank, and the remainder will become junior synonyms, often under names with which they have had no previous close association. The specific and subspecific arrangement in most genera, especially large ones like *Iridomyrmex* and *Camponotus*, evidences more disorder than order, and disorder will prevail until comprehensive revisionary monographs, based upon more representative collections and improved biological knowledge, can be completed.

It must be emphasized that this catalogue is preliminary in many aspects. We believe that all species names are correctly assigned to the genera currently recognized by ant taxonomists, and that future surprises in generic re-assignment of the names presented here are unlikely. However, in genera which have not been recently monographed, the status of individual names as specific or subspecific epithets usually follows the last published assignment. The final arrangement must be considered a piecemeal development, as discussed above. This has been unavoidable, but it has allowed us to place each species name in a logically identifiable place relative to other names, even if the taxonomic implications of the arrangement might be untenable in the light of future comprehensive taxonomic studies.

## ORGANISATION OF THE CATALOGUE

### Classification

The classification used here is primarily that of Brown (1973), with the

Nothomyrmecinae raised to subfamily status separate from the Myrmecinae, following Taylor (1978).

### Citation of Taxon Names

All generic and specific names are listed in their currently legitimate form, without diacritic marks, capitilization, hyphenation, etc., even if these were present in the original or other subsequent references.

### Taxonomic Arrangement of Subfamilies and Genera

Subfamily headings have been included and the genera are arranged in separate alphabetical cohorts for each subfamily. The order of generic listing is thus partly "taxonomic" and partly alphabetical.

In the present arrangement the subfamily Nothomyrmecinae begins the listing with *Nothomyrmecia*; this is followed by Myrmecinae, with *Myrmecia*; Pseudomyrmecinae, with *Tetraponera*; Ponerinae, with *Amblyopone*; Dorylinae, with *Aenictus*; Leptanillinae, with *Leptanilla*; Myrmicinae, with *Adlerzia*; Dolichoderinae, with *Bothriomyrmex*; and Formicinae, with *Acropyga*.

### Synonymies

Within the limits prescribed above, the generic and specific synonymies are as complete as we have been able to achieve. We have proposed very few new synonyms, even though we are aware of likely future changes, occasionally at generic level and frequently at species level. All synonyms are listed in order of date of publication.

### Taxonomic Arrangement at Species Level

Species names without synonyms, and those accepted as senior synonyms, are presented in alphabetical order within genera. Subspecies are listed alphabetically after the nominate subspecies name. The synonyms listed at generic level include only those names of which the type species is represented in Australia.

### Subspecies

Names of the species group assigned subspecific status at the time of their most recent published citation are listed here as subspecies.

Formicid nomenclature has been burdened by the past use of the subspecies category. Much effort has been made by those engaged in modern revisionary studies to eliminate old subspecies names from the nomenclature, either by elevating them to species status or by submerging them as junior synonyms. Despite this, we have proposed few changes of status among names of the species group, although we would not expect the subspecies category as used here to be accepted in any modern taxonomic synthesis of an Australian ant genus. Editorial procedure has required the citation of nominate subspecies in the listings and this has sometimes introduced previously implicit but unpublished trinomial combinations into the literature.

### Infrasubspecific Taxa

The treatment of infrasubspecific names follows Art. 45 of the ICZN. Other organizational matters involving nomenclature have followed the procedures laid down in the editorial code of the *Zoological Catalogue of Australia*, much as reviewed in the first volume of this series (Cogger *et al.* 1983).

### Keywords

Because of the paucity of published information, we consider this work to be a beginning and not a definitive statement. As with all sections of the *Catalogue*, the computer data base files will be updated to refine, not only the nomenclature and classification of Australian ants, but also the knowledge of their distribution and biological attributes. We believe, and hope, that the nomenclatural and bibliographic components of this work will prove useful to others interested in the Australian Formicidae. We caution users that we have considerable reservation about the reliability of the keywords at this point in time. Our selection of distributional and biological keywords has been based largely on published data, with little reference to the data on the labels of specimens housed in public collections, specimens whose records have never been published. The next phase of



this project will involve such a synthesis and we hope that updating of the existing computer data base will begin immediately.

Because of these constraints, many species are assigned a distribution limited to the prescribed geographic region which contains their type locality. This means that such areas as the Australian Capital Territory and Tasmania would appear to have ant faunas much less rich than is the case in nature. On the other hand, some regions, such as "NE coastal Queensland", apparently contain many species found nowhere else, so that there are likely to be few additions to the distributional keywords of species listed from them.

The biological keywords given for each species are based upon a prescription designed originally for the genus concerned, which has been repeated for each species, even though authoritative documentation is not available for all. For example, all *Pheidole* species are said to be harvesters of seeds, even though we have no proof of this for many of them. This section will become more useful as further biological information becomes available, as species are placed taxonomically and as data on their labels are added to the *Catalogue* data base.

### Biological References

We are aware that many references have been omitted from the individual species entries under this heading. A few "key" references have been given to access the literature on some of the more extensively studied taxa (such as *Nothomyrmecia*, some *Myrmecia* species and *Iridomyrmex* species of the *purpureus* group). Several recent general works could not easily be accommodated in this way. They include, the karyological survey of Imai, Crozier & Taylor (1977), and Greenslade's *A Guide to Ants of South Australia* (1979); the latter usefully surveys the genera present in that State and provides keys to a large subset of the ant genera known from Australia. A number of ecological titles are also excluded, most notably Berg's (1975) milestone study on the relations between myrmecochorus plants and ants, along with the many papers which his work has inspired.

### Tramp Species

There are a number of essentially pantropical "tramp" or "vagrant" ant species, some of which have been introduced by human agency into northern Australia and some southern cities. Some of these species have not been included in this catalogue. We expect to add them to the data base shortly. There is some confusion as to just which "tramp" species are present on the Australian continent, and the extent of their distribution is often unclear. One of us (RWT) has been progressively surveying these matters, but the work was incomplete at the time of publication. There are some species, including various *Tetramorium* spp., *Quadristruma emmae* (Emery), *Technomyrmex albipes* (Smith), *Iridomyrmex glaber* (Mayr), and *Anoplolepis longipes* (Jerdon), which are known to be vagrant in places peripheral to their main distributional areas, and are generally considered "tramp" species for this reason. In our opinion such species, if listed below, are likely native species, which have dispersed onto the Australian continent from Papuan source areas in a late stage of the northwards drift of the continent.

### ACKNOWLEDGEMENTS

We are grateful for assistance in the compilation, checking and recording of data gathered for this catalogue by Elizabeth Lockie, Renate Sadler, Patricia Hoyle, Marie-Louise Johnson and Timothy Wace. Valuable advice on myrmecological matters was given by Rev. B.B. Lowery, S.J., and on the computer data-logging procedures by Janet Pyke. Drs Dan Walton and Barry Richardson of the Bureau of Flora and Fauna are both thanked and complimented on their excellent and detailed attention to editorial matters. The compilation was supported by a grant from the Australian Biological Resources Study.

R.W.T. & D.R.B.

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# FORMICIDAE

## INTRODUCTION

The family Formicidae accommodates all known true ants. Almost all species are fully eusocial. The exceptions are a few derived and sometimes highly specialised workerless parasites which areinquilines in the nests of other, usually closely related, ant species. Most formicid species have winged, wasp-like males, deciduously winged or wingless females, and a wingless neuter-female worker caste. The vast majority of individual ants are workers; the ants familiar to casual observers are usually members of this caste. Virgin winged females and males are abroad only during a limited, usually annual, season when they take part in mating flights. After these flights the males disperse and die, and the females, as the foundress queens of new colonies, shed their wings, secrete themselves in the soil or elsewhere, and begin to lay worker-producing eggs. With few exceptions, mature ant colonies include a single or very few coeval mated queens along with a large force of daughter workers. In addition, alate virgin males and females may be present during the weeks or months prior to their release for the mating flight. Eggs, larvae and pupae are usually also present in the nests, though the brood composition can vary seasonally, and broods may be absent during winter.

Ants have a distinctive habitus, though they may be confused (among non-mimics) with wingless females of the families Mutillidae and Thynnidae and certain other wingless Hymenoptera. All ants have a nodiform, binodal or scale-like "waist" consisting of the modified true abdominal segments II or II+III. The antennae of females are usually elbowed, with the basal segment or "scape" much longer than any of the succeeding "funicular" segments. With few exceptions, ants have a large "metapleural gland" with a small external orifice which opens on each side of the metathorax, at the lower posterior corners of the mesosoma, above the hind coxae.

The family Formicidae is treated as coextensive with the superfamily Formicoidea in the classification followed here. Some European authors tend to elevate the sub-families recognized here to family status. The recently proposed classification of the Hymenoptera by D.J. Brothers (1975) reduces the previously and commonly accepted seven superfamilies of aculeate Hymenoptera to three. The family Formicidae is placed in superfamily Vespoidea, along with eleven other families. Of the two informal groups included in the Vespoidea, the "Formiciformes" contains only the family Formicidae. It is thus equivalent as a taxon to the traditionally recognized superfamily Formicoidea, as used here.

## References

Brothers, D.J. (1975). Phylogeny and classification of the aculeate Hymenoptera, with special reference to Mutillidae. *Univ. Kansas Sci. Bull.* 50: 483-648

## NOTHOMYRMECIINAE

*Nothomyrmecia* Clark, 1934

*Nothomyrmecia* Clark, J. (1934). Notes on Australian ants, with descriptions of new species and a new genus. *Mem. Natl. Mus. Vict.* 8: 5-20 [17 pl 1]. Type species

*Nothomyrmecia macrops* Clark, 1934 by original designation.

*Nothomyrmecia macrops* Clark, 1934

*Nothomyrmecia macrops* Clark, J. (1934). Notes on Australian ants, with descriptions of new species and a



new genus. *Mem. Natl. Mus. Vict.* **8**: 5–20 [19 pl 1]. Type data: syntypes, NMV \*W, from Russell Range, W.A.

Distribution: W plateau, S.A., W.A. Ecology: terrestrial, nocturnal, predator, woodland; nest in soil. Biological references: Taylor, R.W. (1978). *Nothomyrmecia macrops*: a living-fossil ant rediscovered. *Science* **201**: 979–985 (phylogeny, bionomics).

## MYRMECIINAE

### *Myrmecia* Fabricius, 1804

*Myrmecia* Fabricius, J.C. (1804). *Systema Piezatorum*. Brunsvigae [423]. Type species *Formica gulosa* Fabricius, 1775 by subsequent designation, see Shuckard, W.E. (1840). *Hist. and Nat. Arrang. Ins.* [173]. Compiled from secondary source: Wheeler, W.M. (1913). Corrections to "List of type species of the genera and subgenera of Formicidae". *Ann. N.Y. Acad. Sci.* **23**: 77–83 [29 May 1913].

*Promyrmecia* Emery, C. (1911). Hymenoptera Fam. Formicidae subfam. Ponerinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 118 Brussels 125 pp. 3 pls [19] [proposed with subgeneric rank in *Myrmecia* Fabricius, 1804]. Type species *Myrmecia aberrans* Forel, 1900 by original designation.

*Pristomyrmecia* Emery, C. (1911). Hymenoptera. Fam. Formicidae, subfam. Ponerinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 118 Brussels 125 pp. 3 pls [21] [proposed with subgeneric rank in *Myrmecia* Fabricius, 1804]. Type species *Myrmecia mandibularis* F. Smith, 1858 by original designation.

*Halmamyrmecia* Wheeler, W.M. (1922). Observations on *Gigantiops destructor* Fabricius and other leaping ants. *Biol. Bull. Mar. Biol. Lab., Woods Hole* **42**: 185–201 [195] [proposed with subgeneric rank in *Myrmecia* Fabricius, 1804]. Type species *Myrmecia pilosula* F. Smith, 1858 by original designation.

Synonymy that of Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO. Vol. 1 230 pp. [119]; Brown, W.L. jr. (1953). Characters and synonymies among the genera of ants. Part I. *Breviora* **11**: 1–13 [20 Mar. 1953] [1].

This group is also found in New Caledonia (one endemic species) and New Zealand (one introduced species).

### *Myrmecia aberrans* Forel, 1900

*Myrmecia aberrans* Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [54]. Type data: syntypes, GMNH W, from Gawlerstown, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, nocturnal, predator; nest in soil.

### *Myrmecia analis* Mayr, 1862

*Myrmecia analis* Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* **12**: Abhand. 649–776 [725,728 pl 19]. Type data: holotype, NHMW W, from Australia (as New Holland).

*Myrmecia atriscapa* Crawley, W.C. (1925). New ants from Australia. II. *Ann. Mag. Nat. Hist.* (9) **16**: 577–598 [580]. Type data: syntypes, OUM \*W, from Albany, W.A.

Synonymy that of Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [54].

Distribution: SW coastal, SE coastal, NE coastal, Vic., N.S.W., Qld., W.A. Ecology: terrestrial, nocturnal, predator, open scrub, woodland, open forest; nest in soil.

### *Myrmecia arnoldi* Clark, 1951

*Myrmecia arnoldi* Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [36]. Type data: holotype, ANIC W, from Emu Rock, W.A.

Distribution: SW coastal, W plateau, W.A. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in soil.

### *Myrmecia atrata* Clark, 1951

*Myrmecia atrata* Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [77]. Type data: holotype, ANIC W, from Ravensthorpe, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in soil.

### *Myrmecia auriventris* Mayr, 1870

*Myrmecia auriventris* Mayr, G.L. (1870). Neue Formiciden. *Verh. Zool.-Bot. Ges. Wien* **20**: Abhand. 939–996 [31 Dec. 1870] [968]. Type data: syntypes, NHMW W, from Port Mackay and Cape York, Qld.

*Myrmecia auriventris athertonensis* Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [8]. Type data: syntypes, GMNH W,M, ANIC W, other syntypes may exist, from Atherton, Qld.

Synonymy that of Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* **111**: 1–35 [10].

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, open forest; nest in soil.

### *Myrmecia brevinoda* Forel, 1910

*Myrmecia forficata brevinoda* Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [2]. Type data: syntypes, GMNH W,F, ANIC W, from N.S.W. and Gisborne, Vic.

***Myrmecia pyriformis gigas*** Forel, A. (1913). Formicides du Congo Belge récoltées par MM. Bequaert, Luja, etc. *Rev. Zool. Afr.* **2**: 306–351 [30 May 1913] [310]. Type data: syntypes, GMNH, RMB \*W, from Qld.

***Myrmecia forficata eudoxia*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [8]. Type data: syntypes, GMNH W, other syntypes may exist, from Atherton, Qld.

Synonymy that of Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [104]; Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* **111**: 1–35 [22].

Distribution: NE coastal, SE coastal, Murray-Darling basin, Qld., N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia callima*** (Clark, 1943)

***Promyrmecia callima*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 pls 12–17 [125]. Type data: syntypes, NMV \*W, from Kiata, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, predator, desert, open forest; nest in soil.

***Myrmecia cardigaster*** Brown, 1953

***Myrmecia cordata*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [116] [*non Myrmecia cordata* Fabricius, 1805 = *Daceton armigerum* Latreille, 1802]. Type data: holotype, ANIC W, from Malanda, Qld.

***Myrmecia cardigaster*** Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* **111**: 1–35 [28] [*nom. nov.* for *Myrmecia cordata* Clark, 1951].

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, (open forest), (closed forest); nest in soil.

***Myrmecia celaena*** (Clark, 1943)

***Promyrmecia celaena*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 pls 12–17 [120]. Type data: syntypes, NMV \*W, from Pilliga and Narrabri, N.S.W. and Millmerran, Qld.

Distribution: Murray-Darling basin, N.S.W., Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia cephalotes*** (Clark, 1943)

***Promyrmecia cephalotes*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 pls 12–17 [123]. Type data: syntypes, NMV \*W, F, M, from Cooper's Creek and Killalpaninna, S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.

***Myrmecia chasei*** Forel, 1894

***Myrmecia chasei chasei*** Forel, 1894

***Myrmecia chasei*** Forel, A. (1894). Quelques fourmis de Madagascar (récoltées par M. le Dr. Völztkow); de Nouvelle Zélande (récoltées par M. W.W. Smith); de Nouvelle Calédonie (récoltées par M. Sommer); de Queensland (Australie) récoltées par M. Wiederkehr; et de Perth (Australie occidentale) récoltées par M. Chase. *Ann. Soc. Entomol. Belg.* **38**: 226–237 [235]. Type data: holotype, GMNH W, from Perth, W.A.

***Myrmecia pilosula mediorubra*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [7]. Type data: holotype, GMNH W, from King George Sound, W.A.

Synonymy that of Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [212].

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia chasei ludlowi*** Crawley, 1922

***Myrmecia chasei ludlowi*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **9**: 427–448 [431]. Type data: syntypes, OUM \*W, from Ludlow, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia chrysogaster*** (Clark, 1943)

***Promyrmecia chrysogaster*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 pls 12–17 [114]. Type data: syntypes (probable), NMV \*W, from Brisbane, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia clarki*** Crawley, 1922

***Myrmecia clarki*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **9**: 427–448 [432]. Type data: syntypes, OUM \*W, from Mundaring Weir, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia comata*** Clark, 1951

***Myrmecia comata*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [43]. Type data: holotype, ANIC W, from Bunya Mts., Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest; nest in soil.

***Myrmecia cydista*** (Clark, 1943)

***Promyrmecia cydista*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* 13: 83–149 pls 12–17 [115]. Type data: syntypes, NMV \*W, from Lismore, Dorrigo, Sydney, and Wahroonga, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia decipians*** Clark, 1951

***Myrmecia decipians*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [86]. Type data: holotype, ANIC W, from Quirindi, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Myrmecia desertorum*** Wheeler, 1915

***Myrmecia vindex desertorum*** Wheeler, W.M. (1915). Hymenoptera. *Trans. R. Soc. S. Aust.* 39: 805–823 pls 64–66 [Dec. 1915] [805]. Type data: syntypes, MCZ \*W, from Todmorden, S.A.

***Myrmecia lutea*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) 9: 427–448 [429]. Type data: syntypes, OUM \*W, from Ludlow, W.A.

***Myrmecia princeps*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [46]. Type data: holotype, ANIC W, from Tarcoola, S.A.

***Myrmecia fuscipes*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [62]. Type data: holotype, ANIC W, from Port Lincoln, S.A.

Synonymy that of Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* 111: 1–35 [25].

Distribution: W plateau, Lake Eyre basin, SW coastal, S.A., W.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil. Biological references: Gray, B. (1971). Notes on the field behaviour of two ant species *Myrmecia desertorum* Wheeler and *Myrmecia dispar* (Clark) (Hymenoptera : Formicidae). *Insectes Soc.* 18: 81–94 (foraging behaviour).

***Myrmecia dichospila*** Clark, 1938

***Myrmecia (Promyrmecia) dichospila*** Clark, J. (1938). Reports of the McCoy Society for Field Investigation and Research. No. 2. Sir Joseph Bank Islands. Part I. Formicidae (Hymenoptera). *Proc. R. Soc. Vict.* 50: 356–382 [359]. Type data: syntypes, NMV \*W,F,M, from Reevesby Is., S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.

***Myrmecia dimidiata*** Clark, 1951

***Myrmecia dimidiata*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [71]. Type data: holotype, ANIC W, from Stanthorpe, Qld.

Distribution: Murray-Darling basin, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Myrmecia dispar*** (Clark, 1951)

***Promyrmecia dispar*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [226]. Type data: syntypes, ANIC W, from Cowra and June, N.S.W.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil. Biological references: Gray, B. (1971). Notes on the field behaviour of two ant species *Myrmecia desertorum* Wheeler and *Myrmecia dispar* (Clark) (Hymenoptera : Formicidae). *Insectes Soc.* 18: 81–94 (foraging behaviour).

***Myrmecia dixonii*** (Clark, 1943)

***Promyrmecia dixonii*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* 13: 83–149 pls 12–17 [135]. Type data: syntypes, NMV \*W,F, from Eltham, Vic., Albury, N.S.W. and Canberra, A.C.T.

Distribution: SE coastal, Murray-Darling basin, N.S.W., Vic., A.C.T. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia elegans*** (Clark, 1943)

***Promyrmecia elegans*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* 13: 83–149 pls 12–17 [122]. Type data: syntypes, NMV \*W,F, from Hovea, Mt. Dale and Mundaring, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Myrmecia esuriens*** Fabricius, 1804

***Myrmecia esuriens*** Fabricius, J.C. (1804). *Systema Piezatorum*. Brunsvigae [424]. Type data: uncertain, whereabouts unknown, from Australia, see Roger, J. (1861). Die *Ponera*-Artigen Ameisen. *Berl. Entomol. Z.* 5: 1–54 [35].

***Myrmecia tasmaniensis*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [147]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago,



with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*W, from Tas.

***Myrmecia walkeri*** Forel, A. (1893). Nouvelles fourmis d'Australie et des Canaries. *Ann. Soc. Entomol. Belg.* 37: 454–466 [456]. Type data: syntypes, GMNH W, from Hobart, Tas.

Synonymy that of Emery, C. (1911). Hymenoptera Fam. Formicidae subfam. Ponerinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 118 Brussels 125 pp. 3 pls [20].

Distribution: Tas. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Myrmecia eupoecila*** (Clark, 1943)

***Promyrmecia eupoecila*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* 13: 83–149 pls 12–17 [98]. Type data: syntypes (probable), NMV \*F, from Adelaide, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia excavata*** (Clark, 1951)

***Promyrmecia excavata*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [137]. Type data: holotype, ANIC W, from Bundarra, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Myrmecia exigua*** (Clark, 1943)

***Promyrmecia exigua*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* 13: 83–149 pls 12–17 [107]. Type data: syntypes, NMV \*W, from Lake Hattah, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Myrmecia fasciata*** Clark, 1951

***Myrmecia fasciata*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [63]. Type data: holotype, ANIC W, from Pilliga, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Myrmecia ferruginea*** Mayr, 1876

***Myrmecia nigriceps ferruginea*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [95]. Type data: syntypes, NHMW W, from Peak Downs, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil. Biological references: Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* 111: 1–35 (raised to species).

***Myrmecia flammicollis*** Brown, 1953

***Myrmecia flammicollis*** Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* 111: 1–35 [23]. Type data: holotype, MCZ \*W, from The Rocky Scrub around the headwaters of the Rocky River, in the McIlwraith Range, NE of Coen, Cape York Peninsula, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in soil.

***Myrmecia flavicoma*** Roger, 1861

***Myrmecia flavicoma flavicoma*** Roger, 1861

***Myrmecia flavicoma*** Roger, J. (1861). Myrmicologische Nachlese. *Berl. Entomol. Z.* 5: 163–174 [171]. Type data: syntypes, MNHP \*W, from Australia.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia flavicoma minuscula*** Forel, 1915

***Myrmecia flavicoma minuscula*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [8]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Malanda and Cedar Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, (open forest); nest in soil.

***Myrmecia forceps*** Roger, 1861

***Myrmecia forceps*** Roger, J. (1861). Die *Ponera*-Artigen Ameisen. *Berl. Entomol. Z.* 5: 1–54 [34]. Type data: syntypes (probable), BMN \*W, from Australia (as New Holland).

***Myrmecia forceps obscuriceps*** Viehmeyer, H. (1924). Formiciden der australischen Faunenregion. *Entomol. Mitt.* 13: 219–229 [222]. Type data: syntypes (probable), ZMB \*W, from Liverpool, N.S.W.

***Myrmecia singularis*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [26]. Type data: holotype, ANIC W, from Kangaroo Is., S.A.

Synonymy that of Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [24]; Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* 111: 1–35 [7].

Distribution: SE coastal, S Gulfs, N.S.W., S.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil. Biological references: Freeland, J. (1958). Biological and social patterns in the Australian bulldog ants of the genus *Myrmecia*. *Aust. J. Zool.* **6**: 1–18 (social behaviour).

***Myrmecia forficata* (Fabricius, 1787)**

***Formica forficata*** Fabricius, J.C. (1787). *Mantissa Insectorum sistens eorum species nuper detectas adiectis characteribus genericis, differentiis specificis, emendationibus, observationibus*. Hafniae Vol. 1 [310]. Type data: holotype (probable), BMNH W, from Tas.

***Myrmecia lucida*** Forel, A. (1893). Nouvelles fourmis d'Australie et des Canaries. *Ann. Soc. Entomol. Belg.* **37**: 454–466 [457]. Type data: syntypes (probable), GMNH W, from Hobart, Tas.

***Myrmecia forficata rubra*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [3]. Type data: syntypes, GMNH W, from Jarra distr., Vic.

Synonymy that of Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [93]; Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* **111**: 1–35 [28].

Distribution: SE coastal, Vic., Tas. Ecology: terrestrial, noctidiurnal, predator, alpine, woodland, open forest; nest in ground layer.

***Myrmecia froggatti* Forel, 1910**

***Myrmecia froggatti*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [9] [introduced as *froggati*, incorrect spelling of collector, Froggatt]. Type data: holotype, GMNH W, from Manilla, N.S.W.

***Myrmecia (Promyrmecia) aberrans taylori*** Wheeler, W.M. (1933). *Colony-founding among ants with an account of some primitive Australian species*. Cambridge : Harvard Univ. Press 179 pp. [53]. Type data: holotype, MCZ \*W, from Roma distr., Qld.

***Myrmecia (Promyrmecia) aberrans sericata*** Wheeler, W.M. (1933). *Colony-founding among ants with an account of some primitive Australian species*. Cambridge : Harvard Univ. Press 179 pp. [53]. Type data: holotype, MCZ \*W, from Wagga Wagga, N.S.W.

Synonymy that of Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* **111**: 1–35 [17].

Distribution: Murray-Darling basin, N.S.W., Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia fucosa* Clark, 1934**

***Myrmecia (Promyrmecia) fucosa*** Clark, J. (1934). Notes on Australian ants, with descriptions of new species and a new genus. *Mem. Natl. Mus. Vict.* **8**: 5–20 [15 pl 1].

Type data: syntypes, NMV \*W,F, from Lake Hattah, Ouyen, Sea Lake, Wyperfield, Vic. and Murray Bridge, S.A.

Distribution: Murray-Darling basin, Vic., S.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland, open forest; nest in soil.

***Myrmecia fulgida* Clark, 1951**

***Myrmecia fulgida*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [73]. Type data: holotype, ANIC W, from Parker's Range, W.A.

Distribution: W plateau, W.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.

***Myrmecia fulviculis* Forel, 1913**

***Myrmecia (Pristomyrmecia) fulvipes fulviculis*** Forel, A. (1913). Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* **49**: 173–196 pl 2 [174]. Type data: syntypes, GMNH W, from Sydney, N.S.W., see Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 pls 12–17.

Distribution: Tas. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil. Biological references: Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 (raised to species).

***Myrmecia fulvipes* Roger, 1861**

***Myrmecia fulvipes*** Roger, J. (1861). Die *Ponera*-Artigen Ameisen. *Berl. Entomol. Z.* **5**: 1–54 [36]. Type data: holotype, MNHP \*W, from Australia.

***Myrmecia (Pristomyrmecia) piliventris femorata*** Santschi, F. (1928). Nouvelles fourmis d'Australie. *Bull. Soc. Vaud. Sci. Nat.* **56**: 465–483 [30 Aug. 1928] [466]. Type data: syntypes, BNHM W, from Franktown (=Frankston), Vic.

***Myrmecia (Promyrmecia) fulvipes barbata*** Wheeler, W.M. (1933). *Colony-founding among ants with an account of some primitive Australian species*. Cambridge : Harvard Univ. Press 179 pp. [71]. Type data: syntypes, MCZ \*W,F, from Dorriggo, N.S.W. and Belgrave (=Belgrave) Vic.

Synonymy that of Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* **111**: 1–35 [21].

Distribution: SE coastal, N.S.W., Vic. Ecology: terrestrial, noctidiurnal, predator, open heath, woodland; nest in soil.

***Myrmecia gilberti* Forel, 1910**

***Myrmecia fulvipes gilberti*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [6]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

- Myrmecia (Pristomyrmecia) regina*** Santschi, F. (1928). Nouvelles fourmis d'Australie. *Bull. Soc. Vaud. Sci. Nat.* **56**: 465–483 [30 Aug. 1928] [465]. Type data: syntypes, BNHM W, from Townsville, Qld.
- Synonymy that of Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [169].
- Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.
- Myrmecia gratiosa*** Clark, 1951
- Myrmecia gratiosa*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [66]. Type data: holotype, ANIC W, from Bendering, W.A.
- Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.
- Myrmecia greavesi*** (Clark, 1943)
- Promyrmecia greavesi*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 pls 12–17 [99]. Type data: syntypes (probable), NMV \*F, from Mareeba, Qld.
- Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.
- Myrmecia gulosa*** (Fabricius, 1775)
- Formica gulosa*** Fabricius, J.C. (1775). *Systema Entomologiae*, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus. Flensburgi et Lipsiae [395]. Type data: uncertain, BMNH W, from Australia (as New Holland).
- Myrmecia gulosa obscurior*** Forel, A. (1922). Glanures myrmécologiques en 1922. *Rev. Suisse Zool.* **30**: 87–102 [87]. Type data: syntypes, GMNH W, from Australia.
- Synonymy that of Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [49].
- Distribution: NE coastal, SE coastal, Qld., N.S.W. Ecology: terrestrial, noctidiurnal, predator, open heath, woodland, open forest; nest in soil. Biological references: Freeland, J. (1958). Biological and social patterns in the Australian bulldog ants of the genus *Myrmecia*. *Aust. J. Zool.* **6**: 1–18 (social behaviour).
- Myrmecia harderi*** Forel, 1910
- Myrmecia harderi*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [8]. Type data: syntypes, GMNH W, ANIC W, from Gundah, N.S.W.
- Promyrmecia scabra*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 pls 12–17 [119]. Type data: syntypes, NMV \*W,F, from Leigh Creek, S.A.
- Promyrmecia maloni*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 pls 12–17 [121]. Type data: syntypes, NMV \*W, from Inglewood, Vic.
- Synonymy that of Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* **111**: 1–35 [16].
- Distribution: Murray-Darling basin, S Gulfs, N.S.W., Vic., S.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.
- Myrmecia hilli*** (Clark, 1943)
- Promyrmecia hilli*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 pls 12–17 [125]. Type data: syntypes (probable), NMV \*W, from Finke River, N.T.
- Distribution: Lake Eyre basin, N.T. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.
- Myrmecia hirsuta*** Clark, 1951
- Myrmecia hirsuta*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [109]. Type data: holotype, ANIC W, from Stawell, Vic.
- Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil, probably a social parasite of other *Myrmecia* species.
- Myrmecia infima*** Forel, 1900
- Myrmecia picta infima*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [54]. Type data: holotype, GMNH W, from Perth, W.A.
- Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil. Biological references: Wheeler, W.M. (1933). *Colony-founding among ants with an account of some primitive Australian species*. Cambridge : Harvard Univ. Press 179 pp. (raised to species).
- Myrmecia inquilina*** Douglas and Brown, 1959
- Myrmecia inquilina*** Douglas, A. & Brown, W.L. jr. (1959). *Myrmecia inquilina* new species: the first parasite among the lower ants. *Insectes Soc.* **6**: 13–19 [13]. Type data: holotype, WAM 64–38 \*F, from Badjanning Rocks, 4 mi NW of Wagin, W.A.
- Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil, workerless social parasite of other *Myrmecia* species.



***Myrmecia longinodis* Clark, 1951**

***Myrmecia longinodis* Clark, J. (1951).** *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [87]. Type data: holotype, ANIC W, from Kiama, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia luteiforceps* (Clark, 1943)**

***Promyrmecia luteiforceps* Clark, J. (1943).** A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* 13: 83-149 pls 12-17 [143] [introduced as a quadranomen by Forel, 1915]. Type data: syntypes, GMNH W, ANIC W, from Herberton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, (closed forest); nest in soil.

***Myrmecia mandibularis* F. Smith, 1858**

***Myrmecia mandibularis* Smith, F. (1858).** *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [145]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441-476. Type data: syntypes (probable), BMNH \*W, from Adelaide, S.A.

***Myrmecia mandibularis aureorufa* Forel, A. (1910).** *Formicides australiens reçus de MM. Froggatt et Rowland Turner*. *Rev. Suisse Zool.* 18: 1-94 [6]. Type data: holotype, GMNH W, from Australia.

***Myrmecia (Promyrmecia) mandibularis postpetiolaris* Wheeler, W.M. (1933).** *Colony-founding among ants with an account of some primitive Australian species*. Cambridge : Harvard Univ. Press 179 pp. [65]. Type data: syntypes, MCZ \*W,M, from Mt. Lofty, S.A., Ballarat, Vic. and Warren River, W.A.

***Myrmecia (Promyrmecia) fulvipes caelatinoda* Wheeler, W.M. (1933).** *Colony-founding among ants with an account of some primitive Australian species*. Cambridge : Harvard Univ. Press 179 pp. [72]. Type data: holotype, lost, from Belair, S.A.

***Promyrmecia laevinodis* Clark, J. (1943).** A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* 13: 83-149 pls 12-17 [139]. Type data: syntypes, NMV \*W,F, from Armadale, Albany, and Bunbury, W.A., Lucindale, Melrose and Kangaroo Is., S.A. and Mallee, Vic.

Synonymy that of Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [151]; Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* 111: 1-35 [4].

Distribution: SE coastal, S Gulfs, SW coastal, Vic., S.A., W.A. Ecology: terrestrial, noctidiurnal, predator; nest in soil.

***Myrmecia maura* Wheeler, 1933*****Myrmecia maura maura* Wheeler, 1933**

***Myrmecia (Promyrmecia) aberrans maura* Wheeler, W.M. (1933).** *Colony-founding among ants with an account of some primitive Australian species*. Cambridge : Harvard Univ. Press 179 pp. [51]. Type data: syntypes, MCZ \*W, from Bathurst, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil. Biological references: Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* 111: 1-35 (raised to species).

***Myrmecia maura formosa* Wheeler, 1933**

***Myrmecia (Promyrmecia) aberrans formosa* Wheeler, W.M. (1933).** *Colony-founding among ants with an account of some primitive Australian species*. Cambridge : Harvard Univ. Press 179 pp. [52]. Type data: syntypes, MCZ \*W, from Uralla, N.S.W.

***Myrmecia (Promyrmecia) aberrans haematosticta* Wheeler, W.M. (1933).** *Colony-founding among ants with an account of some primitive Australian species*. Cambridge : Harvard Univ. Press 179 pp. [51]. Type data: syntypes, MCZ \*W, from Uralla, N.S.W.

Synonymy that of Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* 111: 1-35 [19].

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia michaelsoni* Forel, 1907*****Myrmecia michaelsoni michaelsoni* Forel, 1907**

***Myrmecia michaelsoni* Forel, A. (1907).** Formicidae. pp. 263-310 in Michaelson, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [267]. Type data: syntypes, GMNH W, ANIC W, from NE of Albany, W.A.

***Myrmecia michaelsoni perthensis* Crawley, W.C. (1922).** New ants from Australia. *Ann. Mag. Nat. Hist.* (9) 9: 427-448 [431]. Type data: syntypes (probable), OUM \*W, from Perth, W.A.

Synonymy that of Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [204].

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia michaelsoni queenslandica* Forel, 1915**

***Myrmecia michaelsoni queenslandica* Forel, A. (1915).** Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910-1913. 2. Ameisen. *Ark. Zool.* 9: 1-119 pls 1-3 [4 Dec. 1915] [4]. Type data: holotype, SMNH \*W, from Lamington Plateau, Qld.

***Myrmecia michaelseni overbecki*** Viehmeyer, H. (1924). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **13**: 219–229 [222]. Type data: syntypes, ZMB \*W,F, from Trial Bay, N.S.W.

Synonymy that of Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [206].

Distribution: NE coastal, SE coastal, Qld., Vic. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia midas*** Clark, 1951

***Myrmecia midas*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [55]. Type data: holotype, ANIC W, from Dorrig, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in soil.

***Myrmecia mjobergi*** Forel, 1915

***Myrmecia mjobergi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [5]. Type data: syntypes, GMNH W,F, ANIC W, other syntypes may exist, from Atherton and Malanda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, closed forest; nest arboreal (in epiphytes), occasionally in ground layer.

***Myrmecia nigra*** Forel, 1907

***Myrmecia picta nigra*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [267]. Type data: holotype, probably destroyed in ZMH in WW II, from East Fremantle, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil. Biological references: Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 pls 12–17 (raised to species).

***Myrmecia nigriceps*** Mayr, 1862

***Myrmecia nigriceps*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* **12**: Abhand. 649–776 [725,728 pl 19]. Type data: syntypes, NHMW W, from Australia (as New Holland).

Distribution: SW coastal, W plateau, S Gulfs, SE coastal, Murray-Darling basin, N.S.W., A.C.T., Vic., S.A., W.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland, open forest; nest in soil.

***Myrmecia nigriscapa*** Roger, 1861

***Myrmecia nigriscapa*** Roger, J. (1861). Die *Ponera*-Artigen Ameisen. *Berl. Entomol. Z.* **5**: 1–54 [33]. Type data: syntypes, BMN \*W, from Australia (as New Holland).

Distribution: SW coastal, W plateau, S Gulfs, SE coastal, NE coastal, Qld., N.S.W., Vic., S.A., W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia nigrocincta*** F. Smith, 1858

***Myrmecia nigrocincta*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [147]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Australia.

Distribution: SE coastal, Murray-Darling basin, NE coastal, Qld., N.S.W., Vic. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in soil.

***Myrmecia nobilis*** (Clark, 1943)

***Promyrmecia nobilis*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 pls 12–17 [97]. Type data: syntypes, NMV \*W,F,M, from Altona, Bacchus Marsh, Coburg, Broadmeadows, Geelong and Patho, Vic.

Distribution: Murray-Darling basin, SE coastal, Vic. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia occidentalis*** (Clark, 1943)

***Promyrmecia occidentalis*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 pls 12–17 [119]. Type data: syntypes, NMV \*W,F, from Tammin, Eradu, Merredin and Beverley, W.A.

Distribution: SW coastal, W plateau, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Myrmecia opaca*** (Clark, 1943)

***Promyrmecia opaca*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 pls 12–17 [123]. Type data: syntypes, NMV \*W,F, from Tammin, Eradu and Dowerin, W.A.

Distribution: SW coastal, W plateau, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Myrmecia pavid*** Clark, 1951

***Myrmecia pavid*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [76]. Type data: holotype, ANIC W, from Mt. Barker, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Myrmecia petiolata*** Emery, 1895

***Myrmecia petiolata*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [345]. Type data: holotype, MCG W, from Mt. Bellenden Ker, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in soil.

***Myrmecia picta*** F. Smith, 1858

***Myrmecia picta*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [146]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes, BMNH \*W,F, from Adelaide, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia picticeps*** Clark, 1951

***Myrmecia picticeps*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [47]. Type data: holotype, ANIC W, from Albany, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Myrmecia piliventris*** F. Smith, 1858

***Myrmecia piliventris*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [146]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Australia.

***Myrmecia piliventris rectidens*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [5]. Type data: syntypes, GMNH W, from Kingstown, Australia".

Synonymy that of Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* **111**: 1–35 [20].

Distribution: SE coastal, N.S.W., Vic., Tas. Ecology: terrestrial, noctidiurnal, predator, open heath, woodland, open forest; nest in soil.

***Myrmecia pilosula*** F. Smith, 1858

***Myrmecia pilosula*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [146]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes, BMNH \*M,F,W, from Australia and Tas."

***Ponera ruginoda*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [93]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*M, from Australia.

Synonymy that of Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* **111**: 1–35 [6].

Distribution: SW coastal, S Gulfs, SE coastal, NE coastal, Murray-Darling basin, Qld., N.S.W., A.C.T., Vic., Tas., S.A., W.A. Ecology: terrestrial, noctidiurnal, predator, alpine, woodland, open forest; nest in soil. Biological references: Craig, R. & Crozier, R.H. (1979). Relatedness in the polygynous ant *Myrmecia pilosula*. *Evolution* **33**: 335–341 (social genetics).

***Myrmecia potteri*** (Clark, 1951)

***Promyrmecia potteri*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [168]. Type data: holotype, ANIC W, from Patho, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.

***Myrmecia pulchra*** Clark, 1929

***Myrmecia pulchra*** Clark, J. (1929). Results of a collecting trip to the Cann River, East Gippsland. *Vict. Nat.* **46**: 115–123 [4 Oct. 1929] [119]. Type data: syntypes, NMV \*W,F, from Cann River, Vic.

***Myrmecia crassinoda*** Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* **8**: 48–73 [50 pl 4]. Type data: syntypes, NMV \*W,F, from Gellibrand, Vic.

***Myrmecia fallax*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [79]. Type data: holotype, ANIC W, from Kerrie, Vic.



***Myrmecia murina*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [80]. Type data: holotype, ANIC W, from Belgrave, Vic.

Synonymy that of Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* **111**: 1–35 [27].

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, predator, alpine, woodland, open forest; nest in soil.

***Myrmecia pyriformis*** F. Smith, 1858

***Myrmecia pyriformis*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [144]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes, BMNH \*W,F,M, from Melbourne, Vic. and Hunter River, N.S.W.

***Myrmecia sanguinea*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [148]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Tas.

Synonymy that of Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* **111**: 1–35 [9].

Distribution: SE coastal, N.S.W., Vic., Tas. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil. Biological references: Wheeler, W.M. (1916). The marriage flight of a bull-dog ant (*Myrmecia sanguinea* F. Smith). *J. Anim. Behav.* **6**: 70–73 (reproductive behaviour).

***Myrmecia regularis*** Crawley, 1925

***Myrmecia regularis*** Crawley, W.C. (1925). New ants from Australia. II. *Ann. Mag. Nat. Hist.* (9) **16**: 577–598 [579]. Type data: syntypes, OUM \*W, from Albany, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia rowlandi*** Forel, 1910

***Myrmecia tarsata rowlandi*** Forel, A. (1910). Formicides australiens regus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [4]. Type data: syntypes, GMNH W, from Curanda (=Kuranda) and Cairns, Qld.

***Myrmecia tarsata malandensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [9]. Type data: syntypes, GMNH W,M, ANIC W, other syntypes may exist, from Malanda, Cedar Creek and Atherton, Qld.

Synonymy that of Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* **111**: 1–35 [10].

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in soil.

***Myrmecia rubicunda*** (Clark, 1943)

***Promyrmecia rubicunda*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 pls 12–17 [107]. Type data: syntypes, NMV \*W, from Ooldea, S.A.

Distribution: W plateau, S.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.

***Myrmecia rubripes*** Clark, 1951

***Myrmecia rubripes*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [34]. Type data: syntypes, specimens in ANIC may be syntypes, other syntypes may exist in NMV, from Ongerup, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Myrmecia rufinodis*** F. Smith, 1858

***Myrmecia rufinodis*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [145]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Adelaide, S.A.

***Myrmecia gracilis*** Emery, C. (1898). Descrizioni di formiche nuove Malesi e Australiane. Note sinonimiche. *Rec. Sess. Accad. Sci. Ist. Bologna (ns)* **2**: 231–245 [232]. Type data: holotype, MCG W, from Kingskate (=Kingscote), S.A.

Synonymy that of Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* **111**: 1–35 [8].

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia rugosa*** Wheeler, 1933

***Myrmecia (Promyrmecia) michaelsoni rugosa*** Wheeler, W.M. (1933). *Colony-founding among ants with an account of some primitive Australian species*. Cambridge : Harvard Univ. Press 179 pp. [60]. Type data: syntypes, MCZ \*W, ANIC W, from Ludlow, W.A.

***Promyrmecia ruginodis*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 pls 12–17 [113] [*non Poner a ruginoda* F. Smith, 1858 = *Myrmecia ruginoda* (F. Smith, 1858)]. Type data: syntypes, NMV \*W,F,M, from Perth, Armadale and Ludlow, W.A.

Synonymy that of Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* **111**: 1–35 [5].

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia simillima*** F. Smith, 1858

***Myrmecia simillima*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [144]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Australia.

***Myrmecia crudelis*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [147]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes, BMNH \*W,F, from Adelaide, S.A.

***Myrmecia nigriventris*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* **12**: Abhand. 649–776 [724,727 pl 19]. Type data: holotype, NHMW W, from Australia (as New Holland).

***Myrmecia spadicea*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* **12**: Abhand. 649–776 [724,728 pl 19]. Type data: status uncertain, NHMW F, from Sidney (=Sydney), N.S.W. and Adelaide, S.A.

***Myrmecia affinis*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* **12**: Abhand. 649–776 [725,728 pl 19]. Type data: syntypes, NHMW W, from Australia (as New Holland).

***Myrmecia tricolor*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* **12**: Abhand. 649–776 [724,728 pl 19]. Type data: syntypes (probable), NHMW W, from Sidney (=Sydney), N.S.W.

***Myrmecia paucidens*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [5]. Type data: syntypes, GMNH W, from Tas.

***Myrmecia tricolor rogeri*** Emery, C. (1914). Formiche d'Australia e di Samoa raccolte dal Prof. Silvestri nel 1913. *Boll. Lab. Zool. Gen. Agr. R. Scuola Agric. Portici* **8**: 179–186 [30 Jan. 1914] [181]. Type data: uncertain, MCG \*W, from N.S.W.

Synonymy that of Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [89]; Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* **111**: 1–35 [12].

Distribution: S Gulfs, SE coastal, S.A., Vic., N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia subfasciata*** Viehmeyer, 1924

***Myrmecia subfasciata*** Viehmeyer, H. (1924). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **13**: 219–229 [221]. Type data: holotype, ZMB \*W, from Liverpool, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, (woodland); nest in soil.

***Myrmecia suttoni*** Clark, 1951

***Myrmecia suttoni*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [72]. Type data: holotype, ANIC W, from Fletcher, Qld.

Distribution: Murray-Darling basin, Qld. Ecology: terrestrial, noctidiurnal, predator, (woodland); nest in soil.

***Myrmecia swalei*** Crawley, 1922

***Myrmecia harderi swalei*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **9**: 427–448 [429]. Type data: holotype, OUM \*W, from Albany, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil. Biological references: Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* **13**: 83–149 (raised to species).

***Myrmecia tarsata*** F. Smith, 1858

***Myrmecia tarsata*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [145]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Australia (Hunter River, &c) [*sic*].

Distribution: NE coastal, SE coastal, Murray-Darling basin, Qld., N.S.W., A.C.T., Vic. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in soil. Biological references: McAreavey, J.J. (1948). Some observations on *Myrmecia tarsata* Smith. *Proc. Linn. Soc. N.S.W.* **73**: 137–141 (colony-founding).

***Myrmecia tepperi* Emery, 1898**

***Myrmecia tepperi*** Emery, C. (1898). Descrizioni di formiche nuove Malesi e Australiane. Note sinonimiche. *Rec. Sess. Accad. Sci. Ist. Bologna (ns)* 2: 231–245 [231]. Type data: syntypes, whereabouts unknown, from S.A.

Distribution: SW coastal, W plateau, S Gulfs, Murray-Darling basin, W.A., S.A., N.S.W., A.C.T., Vic. Ecology: terrestrial, noctidiurnal, predator, open heath, woodland, open forest; nest in soil.

***Myrmecia testaceipes* (Clark, 1943)**

***Promyrmecia testaceipes*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* 13: 83–149 pls 12–17 [134]. Type data: syntypes, NMV \*W, from Albany, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, (woodland); nest in soil.

***Myrmecia urens* Lowne, 1865**

***Myrmecia urens*** Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* 2: 331–336 [336]. Type data: syntypes (probable), BMNH (probable) \*W, from Sidney (=Sydney), N.S.W.

***Myrmecia pumilio*** Mayr, G.L. (1866). Diagnosen neuer und wenig gekannter Formiciden. *Verh. Zool.-Bot. Ges. Wien* 16: Abhand. 885–908 [896 pl 20]. Type data: syntypes (probable), NHMW (probable) \*W, from Sidney (=Sydney), N.S.W.

Synonymy that of Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [190].

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, open heath, woodland, closed forest; nest in soil.

***Myrmecia varians* Mayr, 1876**

***Myrmecia varians*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [94]. Type data: syntypes, NHMW W, from Peak Downs and Rockhampton, Qld.

***Myrmecia rufonigra*** Crawley, W.C. (1921). New and little-known species of ants from various localities. *Ann. Mag. Nat. Hist.* (9) 7: 87–97 [87]. Type data: syntypes, OUM \*W, from Townsville, Qld.

***Promyrmecia wilsoni*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* 13: 83–149 pls 12–17 [127]. Type data: syntypes, NMV \*W, from Mutchilba, Qld.

***Promyrmecia shepherdii*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* 13: 83–149 pls 12–17 [128]. Type data: syntypes, NMV \*W,F,M, from Broken Hill and Dubbo, N.S.W., "Finke River" and Murray Bridge, S.A. and Nhili, Vic.

***Promyrmecia goudiei*** Clark, J. (1943). A revision of the genus *Promyrmecia* Emery (Formicidae). *Mem. Natl. Mus. Vict.* 13: 83–149 pls 12–17 [129]. Type data: syntypes, NMV \*W,F, from Sea Lake, Redcliffs, Hattah and Lake Hattah, Vic.

***Promyrmecia marmorata*** Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [188]. Type data: holotype, ANIC W, from Patho, Vic.

Synonymy that of Clark, J. (1951). *The Formicidae of Australia*. Subfamily Myrmeciinae. Melbourne : CSIRO Vol. 1 230 pp. [181]; Brown, W.L. jr. (1953). Revisionary notes on the ant genus *Myrmecia* of Australia. *Bull. Mus. Comp. Zool.* 111: 1–35 [14].

Distribution: NE coastal, Murray-Darling basin, Lake Eyre basin, Qld., N.S.W., Vic., S.A., N.T. Ecology: terrestrial, noctidiurnal, predator, desert, woodland, open forest; nest in soil.

***Myrmecia vindex* F. Smith, 1858*****Myrmecia vindex vindex* F. Smith, 1858**

***Myrmecia vindex*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [144]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*W, from W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Myrmecia vindex basirufa* Forel, 1907**

***Myrmecia vindex basirufa*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol.1 [264]. Type data: syntypes, GMNH W, ANIC W, from Subiaco, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

**PSEUDOMYRMECINAE*****Tetraponera* F. Smith, 1852**

***Tetraponera*** Smith, F. (1852). Descriptions of some hymenopterous insects captured in India, with notes on their economy, by Ezra T. Downes, Esq., who presented them to the Honourable the East India Company. *Ann. Mag. Nat. Hist.* (2) 9: 44–50 [44] [redefined in Wheeler, W.M. (1922). Ants of the American Museum Congo Expedition. A contribution to the myrmecology of Africa Part II. The ants collected by the American Museum Congo Expedition. *Bull. Am. Mus. Nat. Hist.* 45: 39–269 pls 2–23 (10 Feb. 1922)]. Type species *Eciton nigrum* Jerdon, 1851 (as *Tetraponera atrata* F. Smith, 1852) by subsequent designation, see Wheeler, W.M. (1911). A list of the type species of the genera and subgenera of Formicidae. *Ann. N.Y. Acad. Sci.* 21: 157–175 [17 Oct. 1911].



This group is also found in the south Palearctic, Ethiopian, Malagasy and Oriental regions; New Guinea and east Melanesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Tetraponera laeviceps*** (F. Smith, 1859)

***Pseudomyrma laeviceps*** Smith, F. (1859). Catalogue of hymenopterous insects collected by Mr A.R. Wallace at the islands of Aru and Key. *J. Linn. Soc. Zool.* **3**: 132–178 [1 Feb. 1859] [145]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Aru IIs., Indonesia.

Distribution: N coastal, N Gulf, NE coastal, N.T., Qld.; also in New Guinea. Ecology: terrestrial, diurnal, predator, open forest, closed forest; nest arboreal.

***Tetraponera punctulata*** F. Smith, 1877

***Tetraponera punctulata punctulata*** F. Smith, 1877

***Tetraponera punctulata*** Smith, F. (1877). Descriptions of new species of the genera *Pseudomyrma* and *Tetraponera*, belonging to the family Myrmicidae. *Trans. R. Entomol. Soc. Lond.* **25**: 57–72 [72]. Type data: holotype (probable), BMNH? \*F, from Champion Bay, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, diurnal, predator, open forest, closed forest; nest arboreal.

***Tetraponera punctulata kimberleyensis*** (Forel, 1915)

***Sima punctulata kimberleyensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [37]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Kimberley distr., W.A. and Colosseum, Qld.

Distribution: NE coastal, N coastal, Qld., W.A. Ecology: terrestrial, diurnal, predator, open forest, closed forest; nest arboreal.

## PONERINAE

***Amblyopone*** Erichson, 1842

***Amblyopone*** Erichson, W.F. (1842). Beitrag zur Fauna von Vandiemansland mit besonderer rucksicht auf die geographische Verbreitung der Insecten. *Arch. Naturg.* **8**:

83–287 [260]. Type species *Amblyopone australis* Erichson, 1842 by monotypy.

***Neoamblyopone*** Wheeler, W.M. (1927). Ants of the genus *Amblyopone* Erichson. *Proc. Am. Acad. Arts Sci.* **62**: 1–29 [1] [proposed with subgeneric rank in *Amblyopone* Erichson, 1842]. Type species *Amblyopone clarki* Wheeler, 1927 by monotypy.

***Protamblyopone*** Wheeler, W.M. (1927). Ants of the genus *Amblyopone* Erichson. *Proc. Am. Acad. Arts Sci.* **62**: 1–29 [1] [proposed with subgeneric rank in *Amblyopone* Erichson, 1842]. Type species *Amblyopone aberrans* Wheeler, 1927 by monotypy.

***Lithomyrmex*** Clark, J. (1928). Australian Formicidae. *J. R. Soc. West. Aust.* **14**: 29–41 pl 1 [24 April 1928] [30]. Type species *Lithomyrmex glauerti* Clark, 1928 by original designation.

Synonymy that of Brown, W.L. jr. (1960). Contributions toward a reclassification of the Formicidae. III. Tribe Amblyoponini (Hymenoptera). *Bull. Mus. Comp. Zool.* **122**: 143–230 [155].

This group is also found in the Neotropical, Nearctic, south Palearctic, north Ethiopian, Oriental regions; New Guinea, east Melanesia, New Caledonia, New Zealand and Hawaii in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Amblyopone aberrans*** Wheeler, 1927

***Amblyopone aberrans*** Wheeler, W.M. (1927). Ants of the genus *Amblyopone* Erichson. *Proc. Am. Acad. Arts Sci.* **62**: 1–29 [26]. Type data: syntypes, MCZ \*W,F,M, from Mundaring, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Amblyopone australis*** Erichson, 1842

***Amblyopone australis*** Erichson, W.F. (1842). Beitrag zur Fauna von Vandiemansland mit besonderer rucksicht auf die geographische Verbreitung der Insecten. *Arch. Naturg.* **8**: 83–287 [261]. Type data: holotype (probable), ZMB \*W, from Tas.

***Amblyopone obscura*** Smith, F. (1858). Catalogue of hymenopterous insects in the collection of the British Museum. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [109]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes, BMNH \*W,F, from Australia.

***Amblyopone australis fortis*** Forel, A. (1910). Formicidae australiens re us de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [1]. Type data: syntypes, GMNH W, from Kuranda and Cairns, Qld.

***Amblyopone australis minor*** Forel, A. (1915). Results of Dr. E. Mj berg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [1]. Type data: syntypes, GMNH W,F,M, ANIC W, other syntypes may exist, from Mt. Tambourine (=Tamborine Mt.), Qld.

***Amblyopone australis foveolata*** Wheeler, W.M. (1927). Ants of the genus *Amblyopone* Erichson. *Proc. Am. Acad. Arts Sci.* **62**: 1–29 [9]. Type data: syntypes, MCZ \*W,F,M, from Denmark, W.A.

Synonymy that of Brown, W.L. jr. (1960). Contributions toward a reclassification of the Formicidae. III. Tribe Amblyoponini (Hymenoptera). *Bull. Mus. Comp. Zool.* **122**: 143–230 [167].

Distribution: NE coastal, SW coastal, Murray-Darling basin, SE coastal, S Gulfs, W plateau, N.S.W., Vic., S.A., Qld., Tas., W.A. Ecology: terrestrial, noctidiurnal, predator, alpine, shrubland, woodland, open forest, closed forest; nest in ground layer. Biological references: Taylor, R.W. (1979). Melanesian ants of the genus *Amblyopone* (Hymenoptera : Formicidae). *Aust. J. Zool.* **26**: 823–839 (bionomics).

***Amblyopone clarki*** Wheeler, 1927

***Amblyopone clarki*** Wheeler, W.M. (1927). Ants of the genus *Amblyopone* Erichson. *Proc. Am. Acad. Arts Sci.* **62**: 1–29 [24]. Type data: syntypes, MCZ \*W,F, from Ludlow, W.A.

Distribution: SW coastal, W. plateau, W.A. Ecology: terrestrial, noctidiurnal, predator, desert, shrubland, woodland, open forest; nest in soil.

***Amblyopone exigua*** Clark, 1928

***Amblyopone exigua*** Clark, J. (1928). Australian Formicidae. *J. R. Soc. West. Aust.* **14**: 29–41 pl 1 [24 Apr. 1928] [35]. Type data: syntypes (probable), NMV \*F, from Belgrave, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland, open forest; nest in ground layer.

***Amblyopone ferruginea*** F. Smith, 1858

***Amblyopone ferruginea*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [110]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Melbourne, Vic.

***Amblyopone mandibularis*** Clark, J. (1928). Australian Formicidae. *J. R. Soc. West. Aust.* **14**: 29–41 pl 1 [24 Apr. 1928] [33]. Type data: syntypes, NMV \*W, from Belgrave, Vic.

Synonymy that of Brown, W.L. jr. (1952). The status of some Australian *Amblyopone* species (Hymenoptera : Formicidae). *Entomol. News* **63**: 265–267 [265].

Distribution: SE coastal, Murray-Darling basin, N.S.W., Vic. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Amblyopone gingivalis*** Brown, 1960

***Amblyopone gingivalis*** Brown, W.L. jr. (1960). Contributions toward a reclassification of the Formicidae. III. Tribe Amblyoponini (Hymenoptera). *Bull. Mus. Comp. Zool.* **122**: 143–230 [205]. Type data: holotype, ANIC W, from Calga, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Amblyopone glauerti*** (Clark, 1928)

***Lithomyrmex glauerti*** Clark, J. (1928). Australian Formicidae. *J. R. Soc. West. Aust.* **14**: 29–41 pl 1 [24 Apr. 1928] [31]. Type data: syntypes, WAM 26–605a to 26–605d \*W,F,M, from Irwin River, W.A.

Distribution: NW coastal, W plateau, W.A. Ecology: terrestrial, noctidiurnal, predator, desert, shrubland, woodland; nest in soil.

***Amblyopone gracilis*** Clark, 1934

***Amblyopone (Fulakora) gracilis*** Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* **8**: 48–73 [52 pl 4]. Type data: syntypes, NMV \*W,F, from Beech Forest, Vic.

Distribution: SE coastal, Murray-Darling basin, N.S.W., Vic. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in soil.

***Amblyopone hackeri*** Wheeler, 1927

***Amblyopone hackeri*** Wheeler, W.M. (1927). Ants of the genus *Amblyopone* Erichson. *Proc. Am. Acad. Arts Sci.* **62**: 1–29 [22]. Type data: syntypes, MCZ \*W, from the "National Park of Qld."

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Amblyopone leae*** Wheeler, 1927

***Amblyopone leae*** Wheeler, W.M. (1927). Ants of the genus *Amblyopone* Erichson. *Proc. Am. Acad. Arts Sci.* **62**: 1–29 [16]. Type data: syntypes, MCZ \*W, from Lord Howe Is.

Distribution: Lord Howe Is. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in soil.

***Amblyopone longidens* Forel, 1910**

***Amblyopone ferruginea longidens*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [1]. Type data: syntypes, GMNH W, ANIC W, from Bombala, N.S.W.

Distribution: SE coastal, Murray-Darling basin, A.C.T., Vic., N.S.W. Ecology: terrestrial, noctidiurnal, predator, alpine, woodland, open forest; nest in ground layer. Biological references: Brown, W.L. jr. (1952). The status of some Australian *Amblyopone* species (Hymenoptera : Formicidae). *Entomol. News* **63**: 265–267 (raised to species).

***Amblyopone lucida* Clark, 1934**

***Amblyopone (Fulakora) lucida*** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [27 pls 2–3]. Type data: syntypes, NMV \*W, from Corrie Creek, A.C.T.

Distribution: Murray-Darling basin, N.S.W., A.C.T. Ecology: terrestrial, noctidiurnal, predator, alpine, woodland, open forest; nest in soil.

***Amblyopone mercovichii* Brown, 1960**

***Amblyopone mercovichii*** Brown, W.L. jr. (1960). Contributions toward a reclassification of the Formicidae. III. Tribe Amblyoponini (Hymenoptera). *Bull. Mus. Comp. Zool.* **122**: 143–230 [201]. Type data: holotype, ANIC W, from Kinglake West, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Amblyopone michaelsoni* Forel, 1907**

***Amblyopone michaelsoni*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelson, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [263]. Type data: holotype, probably destroyed in ZMH in WW II, from Jarrahdale, W.A.

Distribution: SW coastal, SE coastal, Vic., W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Amblyopone punctulata* Clark, 1934**

***Amblyopone (Fulakora) punctulata*** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [28 pls 2–3]. Type data: syntypes, NMV \*W,F, from Trevallyn, Tas.

Distribution: Tas. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Amblyopone smithi* Brown, 1960**

***Amblyopone smithi*** Brown, W.L. jr. (1960). Contributions toward a reclassification of the Formicidae. III. Tribe Amblyoponini (Hymenoptera). *Bull. Mus.*

*Comp. Zool.* **122**: 143–230 [211]. Type data: holotype, MCZ \*W, from Aldgate near Mt. Lofty, Lofty Ranges, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, open forest; nest in ground layer.

***Amblyopone wilsoni* Clark, 1928**

***Amblyopone wilsoni*** Clark, J. (1928). Australian Formicidae. *J. R. Soc. West. Aust.* **14**: 29–41 pl 1 [24 Apr. 1928] [34]. Type data: syntypes (probable), NMV \*W, from Barrington Tops, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Anochetus* Mayr, 1861**

***Anochetus*** Mayr, G.L. (1861). *Die europäischen Formiciden. (Ameisen.) Nach der analytischen Methode bearbeitet*. Vienna : Carl Gerolds Sohn 80 pp. 1 pl [53]. Type species *Odontomachus ghilianii* Spinola, 1853 by monotypy.

This group is also found in the Neotropical, south Nearctic, south Palearctic, Ethiopian, Malagasy and Oriental regions; throughout the Australian Region except New Zealand.

***Anochetus armstrongi* McAreavey, 1949**

***Anochetus armstrongi*** McAreavey, J.J. (1949). Australian Formicidae. New genera and species. *Proc. Linn. Soc. N.S.W.* **74**: 1–25 [15 June 1949] [1]. Type data: holotype, ANIC W,F, from Nyngan, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland; nest in soil.

***Anochetus graeffei* Mayr, 1870**

***Anochetus graeffei*** Mayr, G.L. (1870). Neue Formiciden. *Verh. Zool.-Bot. Ges. Wien* **20**: Abhand. 939–996 [31 Dec. 1870] [961]. Type data: syntypes (probable), NHMW (probable) \*W, from Upolu Is., Samoa.

Distribution: N coastal, N Gulf, NE coastal, SE coastal, N.T., Qld., N.S.W. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland, open forest, closed forest; nest in ground layer.

***Anochetus paripungens* Brown, 1978**

***Anochetus paripungens*** Brown, W.L. jr. (1978). Contributions toward a reclassification of the Formicidae. Part VI. Ponerinae, tribe Ponerini, subtribe Odontomachiti. Section B. Genus *Anochetus* and Bibliography. *Studia Entomol. (ns)* **20**: 549–638 pls 1–12 [30 Aug. 1978] [596]. Type data: holotype, MCZ \*W, from Howard Springs, Darwin area, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.



***Anochetus rectangularis* Mayr, 1876**

***Anochetus rectangularis*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [86]. Type data: holotype, NHMW W, from Rockhampton, Qld.

***Anochetus rectangularis diabolus*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [35]. Type data: holotype, SMNH \*W, from Christmas Creek, Qld.

Synonymy that of Brown, W.L. jr. (1978). Contributions toward a reclassification of the Formicidae. Part VI. Ponerinae, tribe Ponerini, subtribe Odontomachiti. Section B. Genus *Anochetus* and Bibliography. *Studia Entomol. (ns)* 20: 549–638 pls 1–12 [558].

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in ground layer.

***Anochetus turneri* Forel, 1900**

***Anochetus turneri*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* 44: 54–77 [55]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

***Anochetus turneri latuneii*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [35]. Type data: holotype, SMNH \*W, from Yarrabah, Qld.

Synonymy that of Brown, W.L. jr. (1978). Contributions toward a reclassification of the Formicidae. Part VI. Ponerinae, tribe Ponerini, subtribe Odontomachiti. Section B. Genus *Anochetus* and Bibliography. *Studia Entomol. (ns)* 20: 549–638 pls 1–12 [559].

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Bothroponera* Mayr, 1862**

***Bothroponera*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* 12: Abhand. 649–776 [717 pl 19] [redefined in Wheeler, W.M. (1922). Ants of the American Museum Congo Expedition. A contribution to the myrmecology of Africa. Part II. The ants collected by the American Museum Congo Expedition. *Bull. Am. Mus. Nat. Hist.* 45: 39–269 pls 2–23 (10 Feb. 1922)]. Type species *Ponera pumicos* Roger, 1860 by monotypy.

This group is also found in the Ethiopian, Malagasy and Oriental regions; New Guinea and east Melanesia in the Australian Region.

***Bothroponera astuta* (F. Smith, 1858)**

***Pachycondyla astuta*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London: British Museum 216 pp. 14 pls [27 Mar. 1858] [107]. Publication date established from Donisthorpe, H. (1932). On the identity

of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist. (10)* 10: 441–476. Type data: syntypes (probable), BMNH \*W, from Australia.

Distribution: NE coastal, N coastal, Qld., N.T. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Bothroponera barbata* (Stitz, 1911)**

***Pachycondyla (Bothroponera) barbata*** Stitz, H. (1911). Australische Ameisen (Neu-Guinea und Salomons-Inseln, Festland, Neu-Seeland). *Sber. Ges. Naturf. Freunde Berl.* 1911: 351–381 [355]. Type data: syntypes, ZMB \*W, from Adelaide, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Bothroponera denticulata* W.F. Kirby, 1896**

***Bothroponera denticulata*** Kirby, W.F. (1896). Hymenoptera. pp. 203–209 in Spencer, B. (ed.) *Report on the work of the Horn Scientific Expedition to Central Australia*. Melbourne: Melville, Mullen & Slade Pt. 1 supplement [206]. Type data: syntypes, BMNH (probable) \*W, from Blood Creek, S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Bothroponera dubitata* (Forel, 1900)**

***Ponera (Bothroponera) dubitata*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* 44: 54–77 [63]. Type data: syntypes (probable), GMNH \*W, from northern Australia.

Distribution: N Gulf, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Bothroponera excavata* Emery, 1893*****Bothroponera excavata excavata* Emery, 1893**

***Bothroponera excavata*** Emery, C. (1893). Formicides de l'Archipel Malais. *Rev. Suisse Zool.* 1: 187–229 [200 pl 8]. Type data: holotype, MCG \*W, from Australia.

Distribution: N Gulf, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Bothroponera excavata acuticostata* (Forel, 1900)**

***Ponera (Bothroponera) excavata acuticostata*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* 44: 54–77 [64]. Type data: holotype (probable), GMNH W, from Qld.

Distribution: N Gulf, NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Bothroponera mayri*** Emery, 1887

***Bothroponera mayri*** Emery, C. (1887). Catalogo delle formiche esistenti nelle collezioni del Museo Civico di Genova. Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **25**: 427–473 pls 1–2 [442]. Type data: syntypes (probable), NHMW \*W, from Peak Downs, Rockhampton and Brisbane, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Bothroponera piliventris*** (F. Smith, 1858)

***Bothroponera piliventris piliventris*** (F. Smith, 1858)

***Pachycondyla piliventris*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London: British Museum 216 pp. 14 pls [27 Mar. 1858] [107]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Adelaide, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Bothroponera piliventris intermedia*** (Forel, 1900)

***Ponera (Bothroponera) piliventris intermedia*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [63]. Type data: syntypes, GMNH W,M, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Bothroponera piliventris regularis*** (Forel, 1907)

***Pachycondyla (Bothroponera) piliventris regularis*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena: G. Fischer Vol. 1 [271]. Type data: syntypes, GMNH W, ANIC W, from Tamala, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Bothroponera porcata*** (Emery, 1897)

***Ponera (Bothroponera) porcata*** Emery, C. (1897). Viaggio do Lamberto Loria nella Papuasias orientale 18. Formiche raccolte nelle Nuova Guinea. *Ann. Mus. Civ.*

*Stor. Nat. Giacomo Doria* **38**: 546–594 [22 Nov. 1897] [552 pl 1]. Type data: syntypes, MCG W, ANIC W, from N.S.W.

Distribution: NE coastal, SE coastal, Murray-Darling basin, N.S.W., Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Bothroponera sublaevis*** Emery, 1887

***Bothroponera sublaevis sublaevis*** Emery, 1887

***Bothroponera sublaevis*** Emery, C. (1887). Catalogo delle formiche esistenti nelle collezioni del Museo Civico di Genova. Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* (2) **5**: 427–473 pls 1–2 [442]. Type data: syntypes, MCG W, from Somerset, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Bothroponera sublaevis kurandensis*** (Forel, 1910)

***Pachycondyla (Bothroponera) sublaevis kurandensis*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [16]. Type data: syntypes, GMNH W, from Kuranda near Cairns, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Bothroponera sublaevis murina*** (Forel, 1910)

***Pachycondyla (Bothroponera) sublaevis murina*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [17]. Type data: syntypes, GMNH W, ANIC W, from Cape York, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Bothroponera sublaevis reticulata*** (Forel, 1900)

***Ponera (Bothroponera) sublaevis reticulata*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [62]. Type data: syntypes, GMNH W,M, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Bothroponera sublaevis rubicunda*** Emery, 1893

***Bothroponera sublaevis rubicunda*** Emery, C. (1893). Formicides de l'Archipel Malais. *Rev. Suisse Zool.* **1**: 187–229 [201 pl 8]. Type data: holotype, MCG \*W, from Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in soil.

***Brachyponera* Emery, 1901**

***Brachyponera*** Emery, C. (1901). Notes sur les sous-familles des Dorylines et Ponérines (famille des Formicidae). *Ann. Soc. Entomol. Belg.* **45**: 32–54 [43] [proposed with subgeneric rank in *Euponera* Forel, 1891; raised to genus and redefined in Brown, W.L. jr. (1958). A review of the ants of New Zealand (Hymenoptera). *Acta Hymenopt.* **1**: 1–50]. Type species *Ponera senaarensis* Mayr, 1862 by original designation.

This group is also found in the Ethiopian and Oriental regions; New Guinea and east Melanesia in Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Brachyponera croceicornis* (Emery, 1900)**

***Euponera (Brachyponera) luteipes croceicornis*** Emery, C. (1900). Formicidarum species novae vel minus cognitae in collectione Musaei Nationalis Hungarici, quas in Nova-Guinea, Colonia Germanica, collegit L. Biró. *Termész. Füzet.* **23**: 310–338 pl 8 [315]. Type data: syntypes, probably MCG or MNH \*W,F, from New Guinea.

***Euponera (Brachyponera) luteipes inops*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [17]. Type data: syntypes, GMNH W, from Kuranda near Cairns, Qld.

Synonymy that of Wilson, E.O. (1958). Studies on the ant fauna of Melanesia. III. *Rhytidoponera* in Western Melanesia and the Moluccas. IV. The tribe Ponerini. *Bull. Mus. Comp. Zool.* **119**: 301–371 [347].

Distribution: NE coastal, Qld.; also on New Guinea. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

***Brachyponera lutea* (Mayr, 1862)**

***Brachyponera lutea lutea* (Mayr, 1862)**

***Ponera lutea*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* **12**: Abhand. 649–776 [721 pl 19]. Type data: syntypes, NHMW W, from Sidney (=Sydney), N.S.W.

***Ectatomma socialis*** MacLeay, W.J. (1873). Miscellanea entomologica. *Trans. Entomol. Soc. N.S.W.* **2**: 319–370 [369]. Type data: syntypes, ANIC W, from Mundarlo, N.S.W.

Synonymy that of Taylor, R.W. & Brown, D.R., this work.

Distribution: SE coastal, Murray-Darling basin, S Gulfs, Bulloo River basin, Lake Eyre basin, W plateau, SW coastal, NW coastal, N coastal, N Gulf, NE coastal, Vic., S.A., W.A., N.T., Qld., N.S.W. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in soil.

***Brachyponera lutea clara* (Crawley, 1915)**

***Euponera (Brachyponera) lutea clara*** Crawley, W.C. (1915). Ants from north and central Australia, collected by G.F. Hill. Part I. *Ann. Mag. Nat. Hist.* (8) **15**: 130–136 [133]. Type data: syntypes (probable), BMNH \*W, from Stapleton, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in soil.

***Cerapachys* F. Smith, 1857**

***Cerapachys*** Smith, F. (1857). Catalogue of the hymenopterous insects collected at Sarawak, Borneo, Mount Ophir, Malacca; and at Singapore by A. R. Wallace. *J. Linn. Soc. Zool.* **2**: 42–130 [2 Nov. 1857] [74 pls 1–2]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type species *Cerapachys antennatus* Smith, 1857 by monotypy.

***Neophracaces*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* **12**: 71–94 [76 pl 13]. Type species *Phyracaces princeps* Clark, 1934 (as *Phyracaces clarus* Clark, 1930) by original designation.

Synonymy that of Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythyreini, Cerapachyini, Cyldromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* **5**: 1–116 [18].

This group is also found in the Neotropical, south Nearctic, south Palearctic, Ethiopian, Malagasy and Oriental regions; New Guinea, east Melanesia, New Caledonia and parts of Polynesia in Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Cerapachys aberrans* (Clark, 1934)**

***Phyracaces aberrans*** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [25 pls 2–3]. Type data: syntypes (probable), SAMA \*W, from Kuranda, Qld.



Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, desert, tussock grassland, shrubland, woodland, open forest, closed forest; nest in ground layer.

***Cerapachys adamus* Forel, 1910**

***Cerapachys (Phyracaces) adamus*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [19]. Type data: syntypes, GMNH W, ANIC W, from Kuranda near Cairns, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in soil.

***Cerapachys angustatus* (Clark, 1924)**

***Phyracaces angustatus*** Clark, J. (1924). Australian Formicidae. *J. R. Soc. West. Aust.* **10**: 75–89 pls 6–7 [30 Apr. 1924] [76]. Type data: holotype, NMV \*F, from National Park, W.A."

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland; nest in soil.

***Cerapachys bicolor* (Clark, 1924)**

***Phyracaces bicolor*** Clark, J. (1924). Australian Formicidae. *J. R. Soc. West. Aust.* **10**: 75–89 pls 6–7 [30 Apr. 1924] [77]. Type data: syntypes, NMV \*W,F, from Armadale, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland; nest in soil.

***Cerapachys binodis* Forel, 1910**

***Cerapachys (Phyracaces) binodis*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [20]. Type data: syntypes, GMNH W, ANIC W, from Kuranda near Cairns, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Cerapachys brevicollis* (Clark, 1923)**

***Phyracaces brevicollis*** Clark, J. (1923). Australian Formicidae. *J. R. Soc. West. Aust.* **9**: 72–89 [78]. Type data: holotype, NMV \*W, from Kelmscott, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland; nest in soil.

***Cerapachys brevis* (Clark, 1924)**

***Phyracaces brevis*** Clark, J. (1924). Australian Formicidae. *J. R. Soc. West. Aust.* **10**: 75–89 pls 6–7 [30 Apr. 1924] [78]. Type data: syntypes, NMV \*W, from Hovea, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland; nest in soil.

***Cerapachys clarki* (Crawley, 1922)**

***Phyracaces clarki*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **9**: 427–448 [433]. Type data: syntypes, OUM \*W, from Darlington, W.A.

***Phyracaces castaneus*** Clark, J. (1924). Australian Formicidae. *J. R. Soc. West. Aust.* **10**: 75–89 pls 6–7 [30 Apr. 1924] [79]. Type data: syntypes, NMV \*W,F,M, from Hovea, W.A.

Synonymy that of Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythyreini, Cerapachyini, Cylindromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* **5**: 1–116 [22].

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland; nest in soil.

***Cerapachys constrictus* (Clark, 1923)**

***Phyracaces constricta*** Clark, J. (1923). Australian Formicidae. *J. R. Soc. West. Aust.* **9**: 72–89 [79]. Type data: holotype, NMV \*F, from Armadale, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, desert, hummock grassland, shrubland, woodland; nest in soil.

***Cerapachys crassus* (Clark, 1941)**

***Phyracaces crassus*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* **12**: 71–94 [74 pl 13]. Type data: syntypes, NMV \*W, from Hattah, Vic.

Distribution: Murray-Darling basin, Vic., N.S.W. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland; nest in soil.

***Cerapachys edentatus* (Forel, 1900)**

***Syscia australis*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [68] [introduced as *australis* but used by the original author in 1902 as *australis*; non *Lioponera longitarsus australis* Forel, 1895 = *Lioponera longitarsus* Mayr, 1878 = *Cerapachys longitarsus* (Mayr, 1878)]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

***Syscia australis edentata*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [69] [introduced as *australis* but used by the original author in 1902 as *australis*]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Synonymy that of Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae,

tribes Platythyreini, Cerapachyini, Cyldromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* 5: 1-116 [22].

Distribution: NE coastal, Murray-Darling basin, SE coastal, N.S.W., A.C.T., Qld. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland, open forest; nest in soil.

***Cerapachys elegans*** (Wheeler, 1918)

***Phyracaces elegans*** Wheeler, W.M. (1918). The Australian ants of the ponerine tribe Cerapachyini. *Proc. Am. Acad. Arts Sci.* 53: 213-265 [254]. Type data: syntypes, MCZ \*W,F, from Southerland (=Sutherland), N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in ground layer.

***Cerapachys emeryi*** (Viehmeyer, 1913)

***Phyracaces emeryi*** Viehmeyer, H. (1913). Neue und unvollständig bekannte Ameisen der Alten Welt. *Arch. Naturg.* 79A(12): 24-60 [26]. Type data: holotype, ZMB \*W, from Killalpaninna, S.A.

Distribution: Lake Eyre basin, S.A., N.T., Qld. Ecology: terrestrial, noctidiurnal, predator, desert, shrubland; nest in soil.

***Cerapachys fervidus*** (Wheeler, 1918)

***Phyracaces fervidus*** Wheeler, W.M. (1918). The Australian ants of the ponerine tribe Cerapachyini. *Proc. Am. Acad. Arts Sci.* 53: 213-265 [245]. Type data: syntypes, MCZ \*W, from Cairns, Qld.

***Phyracaces laeae*** Wheeler, W.M. (1918). The Australian ants of the ponerine tribe Cerapachyini. *Proc. Am. Acad. Arts Sci.* 53: 213-265 [243]. Type data: holotype, SAMA \*W, from Townsville, Qld.

***Phyracaces scrutator*** Wheeler, W.M. (1918). The Australian ants of the ponerine tribe Cerapachyini. *Proc. Am. Acad. Arts Sci.* 53: 213-265 [247]. Type data: syntypes, MCZ \*W, from Toowong near Brisbane, Qld.

***Phyracaces newmani*** Clark, J. (1923). Australian Formicidae. *J. R. Soc. West. Aust.* 9: 72-89 [82]. Type data: syntypes, NMV \*W, from Mundaring, W.A.

***Phyracaces fici*** Viehmeyer, H. (1924). Formiciden der australischen Faunenregion. *Entomol. Mitt.* 13: 219-229 [222]. Type data: syntypes, ZMB \*W,F, from Trial Bay, N.S.W.

***Phyracaces flavescens*** Clark, J. (1930). New Formicidae, with notes on some little-known species. *Proc. R. Soc. Vict.* 43: 2-25 [30 Aug. 1930] [5]. Type data: syntypes, NMV \*W,F, from Eradu, W.A.

***Phyracaces dromus*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* 12: 71-94 [75 pl 13]. Type data: syntypes, NMV \*W,F, from Patho, Vic.

Synonymy that of Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae,

tribes Platythyreini, Cerapachyini, Cyldromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* 5: 1-116 [22].

Distribution: NE coastal, SE coastal, Murray-Darling basin, SW coastal, NW coastal, N.S.W., Vic., Qld., W.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland, open forest; nest in ground layer.

***Cerapachys ficosus*** (Wheeler 1918)

***Phyracaces ficosus*** Wheeler, W.M. (1918). The Australian ants of the ponerine tribe Cerapachyini. *Proc. Am. Acad. Arts Sci.* 53: 213-265 [252]. Type data: syntypes, MCZ \*W, from Bulli Pass, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Cerapachys flammeus*** (Clark, 1930)

***Phyracaces flammeus*** Clark, J. (1930). New Formicidae, with notes on some little-known species. *Proc. R. Soc. Vict.* 43: 2-25 [30 Aug. 1930] [4]. Type data: syntypes, NMV \*W,F, from Lesmurdie Falls, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Cerapachys gilesi*** (Clark, 1923)

***Phyracaces gilesi*** Clark, J. (1923). Australian Formicidae. *J. R. Soc. West. Aust.* 9: 72-89 [81]. Type data: syntypes, NMV \*W,F, from Mundaring, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland, open forest; nest in soil.

***Cerapachys grandis*** (Clark, 1934)

***Phyracaces grandis*** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* 8: 21-47 [22 pls 2-3]. Type data: syntypes, NMV \*W, from South Australia.

Distribution: W plateau, Lake Eyre basin, S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, hummock grassland, tussock grassland, shrubland, woodland; nest in soil.

***Cerapachys greavesi*** (Clark, 1934)

***Phyracaces greavesi*** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* 8: 21-47 [25 pls 2-3]. Type data: syntypes (probable), NMV \*W, from Bungulla, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland, open forest; nest in soil.

***Cerapachys gwynethae* (Clark, 1941)**

***Neophracaces gwynethae*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* **12**: 71–94 [77 pl 13]. Type data: syntypes, NMV \*W,M, from Red Cliffs, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, predator, desert, shrubland, woodland; nest in soil.

***Cerapachys heros* (Wheeler, 1918)**

***Phyracces heros*** Wheeler, W.M. (1918). The Australian ants of the ponerine tribe Cerapachyini. *Proc. Am. Acad. Arts Sci.* **53**: 213–265 [240]. Type data: holotype, MCZ \*W, from Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Cerapachys incontentus* Brown, 1975**

***Phyracces inconspicuus*** Clark, J. (1924). Australian Formicidae. *J. R. Soc. West. Aust.* **10**: 75–89 pls 6–7 [30 Apr. 1924] [82] (*non Cerapachys inconspicuus* Emery, 1902). Type data: syntypes, NMV \*W,F, from National Park, W.A."

***Cerapachys incontentus*** Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythreini, Cerapachyini, Cyndromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* **5**: 1–116 [23] [*nom. nov.* for *Phyracces inconspicuus* Clark, 1924].

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland, open forest; nest in ground layer.

***Cerapachys jovis* Forel, 1915**

***Cerapachys (Phyracces) jovis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [20]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Alice River, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, tussock grassland, shrubland, woodland; nest in soil.

***Cerapachys larvatus* (Wheeler, 1918)**

***Phyracces larvatus*** Wheeler, W.M. (1918). The Australian ants of the ponerine tribe Cerapachyini. *Proc. Am. Acad. Arts Sci.* **53**: 213–265 [257]. Type data: syntypes, MCZ \*W, from Katoomba, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Cerapachys latus* Brown, 1975**

***Phyracces reticulatus*** Clark, J. (1926). Australian Formicidae. *J. R. Soc. West. Aust.* **12**: 43–51 pl 6 [25

Jan. 1926] [45] [*non Cerapachys reticulatus* Emery, 1893]. Type data: syntypes, NMV \*W, from National Park, W.A.

***Cerapachys latus*** Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythreini, Cerapachyini, Cyndromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* **5**: 1–116 [23] [*nom. nov.* for *Phyracces reticulatus* Clark, 1926].

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland, open forest; nest in soil.

***Cerapachys longitarsus* (Mayr, 1878)**

***Lioponera longitarsus*** Mayr, G.L. (1878). Beiträge zur Amesen-Fauna Asiens. *Verh. Zool.-Bot. Ges. Wien* **28**: 645–686 [667]. Type data: syntypes, NHMW \*W,F, from Calcutta, India.

***Lioponera longitarsus australis*** Forel, A. (1895). Nouvelles fourmis d'Australie, récoltée à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* **39**: 417–428 [422]. Type data: syntypes (probable), GMNH (probable) \*W, from Mackay, Qld.

***Phyracces pygmaeus*** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [26 pls 2–3]. Type data: syntypes, NMV \*W, from Kuranda, Qld.

Synonymy that of Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythreini, Cerapachyini, Cyndromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* **5**: 1–116 [23].

Distribution: N coastal, N Gulf, NE coastal, N.T., Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in ground layer.

***Cerapachys macrops* (Clark, 1941)**

***Neophracaces macrops*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* **12**: 71–94 [79 pl 13]. Type data: syntypes, NMV \*W, from Patho, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, predator, desert, hummock grassland, tussock grassland, shrubland; nest in soil.

***Cerapachys mjobergi* Forel, 1915**

***Cerapachys (Phyracces) mjobergi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [18]. Type data: holotype, SMNH \*W, from Derby, W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, desert, shrubland, woodland; nest in soil.

***Cerapachys mullewanus* (Wheeler, 1918)**

***Phyracces mullewanus*** Wheeler, W.M. (1918). The Australian ants of the ponerine tribe Cerapachyini. *Proc.*



*Am. Acad. Arts Sci.* **53**: 213–265 [251] [name based on male specimens only]. Type data: holotype, MCZ \*M, from Mullewa, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, desert, hummock grassland, tussock grassland, shrubland, woodland.

***Cerapachys nigriventris* (Clark, 1924)**

***Phyracaces nigriventris*** Clark, J. (1924). Australian Formicidae. *J. R. Soc. West. Aust.* **10**: 75–89 pls 6–7 [30 Apr. 1924] [84]. Type data: syntypes, NMV \*W,F, from National Park, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Cerapachys picipes* (Clark, 1924)**

***Phyracaces picipes*** Clark, J. (1924). Australian Formicidae. *J. R. Soc. West. Aust.* **10**: 75–89 pls 6–7 [30 Apr. 1924] [86]. Type data: syntypes, NMV \*W, from Tammin, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland, open forest; nest in soil.

***Cerapachys pictus* (Clark, 1934)**

***Phyracaces pictus*** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [23 pls 2–3]. Type data: syntypes (probable), NMV \*W, from Western distr., Vic.

Distribution: Murray-Darling basin, N.S.W., Vic. Ecology: terrestrial, noctidiurnal, predator, hummock grassland, tussock grassland, shrubland, woodland; nest in soil.

***Cerapachys piliventris* (Clark, 1941)**

***Neophyracaces piliventris*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* **12**: 71–94 [80 pl 13]. Type data: syntypes, NMV \*W, from Brisbane, Qld.

Distribution: NE coastal, Murray-Darling basin, Qld. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland; nest in soil.

***Cerapachys potteri* (Clark, 1941)**

***Neophyracaces potteri*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* **12**: 71–94 [76 pl 13]. Type data: syntypes, NMV \*W,M, from Patho, Vic.

Distribution: Murray-Darling basin, Vic., N.S.W. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland; nest in soil.

***Cerapachys princeps* (Clark, 1934)**

***Phyracaces clarus*** Clark, J. (1930). New Formicidae, with notes on some little-known species. *Proc. R. Soc. Vict.* **43**: 2–25 [30 Aug. 1930] [3] [*non Cerapachys emeryi clarus* Forel, 1893 = *Sphinctomymex clarus*

(Forel, 1893)]. Type data: syntypes, NMV \*W,F,M, from Cannington, Mundaring, Kalamunda and "National Park", W.A.

***Phyracaces princeps*** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [24 pls 2–3]. Type data: syntypes, SAMA \*W, from Minnie Downs, S.A.

Synonymy that of Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythyreini, Cerapachyini, Cyldromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* **5**: 1–116 [23].

Distribution: SW coastal, W plateau, S Gulfs, W.A., S.A. Ecology: terrestrial, noctidiurnal, predator, desert, shrubland, woodland; nest in soil.

***Cerapachys punctatissimus* (Clark, 1923)**

***Phyracaces punctatissima*** Clark, J. (1923). Australian Formicidae. *J. R. Soc. West. Aust.* **9**: 72–89 [84]. Type data: syntypes, NMV \*W,F, from Mundaring, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland; nest in soil.

***Cerapachys ruficornis* (Clark, 1923)**

***Phyracaces ruficornis*** Clark, J. (1923). Australian Formicidae. *J. R. Soc. West. Aust.* **9**: 72–89 [86]. Type data: syntypes, NMV \*W, from Mundaring, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland; nest in soil.

***Cerapachys rugulinodis* (Wheeler, 1918)**

***Phyracaces rugulinodis*** Wheeler, W.M. (1918). The Australian ants of the ponerine tribe Cerapachyini. *Proc. Am. Acad. Arts Sci.* **53**: 213–265 [249] [name based on male specimens only]. Type data: lectotype, MCZ \*M, from Murat Bay, S.A., designation by Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythyreini, Cerapachyini, Cyldromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* **5**: 1–116.

Distribution: W plateau, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest.

***Cerapachys senescens* (Wheeler, 1918)**

***Phyracaces senescens*** Wheeler, W.M. (1918). The Australian ants of the ponerine tribe Cerapachyini. *Proc. Am. Acad. Arts Sci.* **53**: 213–265 [259]. Type data: syntypes, MCZ \*W, from Salisbury Court near Uralla, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, predator, hummock grassland, tussock grassland, shrubland, woodland; nest in soil.

***Cerapachys simmonsae* (Clark, 1923)**

***Phyracaces simmonsae*** Clark, J. (1923). Australian Formicidae. *J. R. Soc. West. Aust.* **9**: 72–89 [87]. Type data: syntypes, NMV \*W,F, from Mundaring and Denmark, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland; nest in soil.

***Cerapachys singularis* Forel, 1900**

***Cerapachys singularis*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [69]. Type data: syntypes, GMNH W, from S.A.

***Cerapachys (Phyracaces) singularis rotula*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [21]. Type data: syntypes, GMNH W, ANIC W, from Reedy Creek, Inverell, N.S.W.

Synonymy that of Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythyreini, Cerapachyini, Cylindromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* **5**: 1–116 [23].

Distribution: Murray-Darling basin, SE coastal, S Gulfs, N.S.W., Vic., S.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland, open forest; nest in ground layer.

***Cerapachys sjostedti* Forel, 1915**

***Cerapachys (Phyracaces) sjostedti*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [19]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from NW Australia.

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland; nest in soil.

***Cerapachys turneri* Forel, 1902**

***Cerapachys (Phyracaces) turneri*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [405]. Type data: syntypes, GMNH W,F, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Cerapachys varians* (Clark, 1924)**

***Phyracaces varians*** Clark, J. (1924). Australian Formicidae. *J. R. Soc. West. Aust.* **10**: 75–89 pls 6–7 [30 Apr. 1924] [87]. Type data: syntypes, NMV \*W, from Lion Mill, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, shrubland, woodland, open forest; nest in soil.

***Cryptopone* Emery, 1892**

***Cryptopone*** Emery, C. (1892). Diagnoses de cinq nouveaux genres de Formicides. *Bull. Soc. Entomol. Fr.* **61**: 275–277 [275] [redefined in Brown, W.L., jr. (1963). Characters and synonymies among the genera of ants. Part III. Some members of the tribe Ponerini (Ponerinae, Formicidae). *Breviora* 190: 1–10 (30 Sept. 1963)]. Type species *Amblyopone testacea* Motschoulsky, 1863 by monotypy.

This group is also found in the north Neotropical, south Nearctic, south Palearctic, south Ethiopian and east Oriental regions; New Guinea, east Melanesia, New Caledonia and southwest Polynesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Cryptopone rotundiceps* (Emery, 1914)**

***Euponera (Trachymesopsus) rotundiceps*** Emery, C. (1914). Les fourmis de la Nouvelle-Calédonie et des îles Loyalty. in Sarasin, F. & Roux, J. (1914–1921). *Forschungen in Neu-Caledonien und auf den Loyalty-Inseln*. Zoologie 1: 393–437 pl 13 [397]. Type data: holotype, BNHM \*F, from Mt. Canala, New Caledonia.

***Ponera mjobergi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [22]. Type data: syntypes, GMNH W,F, ANIC W, other syntypes may exist, from Blackall (=Blackall) Range and Mt. Tambourine (=Tamborine Mt.), Qld.

Synonymy that of Brown, W.L. jr. (1963). Characters and synonymies among the genera of ants. Part III. Some members of the tribe Ponerini (Ponerinae, Formicidae). *Breviora* 190: 1–10 [6].

Distribution: NE coastal, SE coastal, N.S.W., Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Diacamma* Mayr, 1862**

***Diacamma*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* **12**: Abhand. 649–776 [718 pl 19]. Type species *Ponera rugosa* Le Guillou, 1841 by subsequent designation, see Bingham, C.T. (1903). *The Fauna of British India, including Ceylon and Burma*. Hymenoptera. Vol. 2 Ants and cuckoo-wasps. London : Taylor & Francis [75].

This group is also found in the east Palearctic and Oriental regions; New Guinea and east Melanesia in Australian Region.

***Diacamma australe*** (Fabricius, 1775)

***Formica australis*** Fabricius, J.C. (1775). *Systema Entomologiae*, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus. Flensburgi et Lipsiae [393]. Type data: holotype (probable), BMNH W, from Australia (as New Holland).

***Diacamma australe colosseensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [26]. Type data: syntypes, GMNH W, other syntypes may exist, from Colosseum, Chillagoe and Atherton, Qld.

***Diacamma australe levis*** Crawley, W.C. (1915). Ants from north and central Australia, collected by G.F. Hill. Part I. *Ann. Mag. Nat. Hist.* (8) 15: 130–136 [134]. Type data: syntypes, BMNH \*W, GMNH W, from Near Adelaide Plains, N.T.

Synonymy that of Taylor, R.W. and Brown, D.R., this work.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, predator, tussock grassland, woodland, open forest; nest in soil.

***Discothyrea*** Roger, 1863

***Discothyrea*** Roger, J. (1863). Die neu aufgeführten Gattungen und Arten meines Formiciden-Verzeichnisses. *Berl. Entomol. Z.* 7: 129–214 [June 1863] [176]. Type species *Discothyrea testacea* Roger, 1863 by monotypy.

***Prodiscothyrea*** Wheeler, W.M. (1916). *Prodiscothyrea*, a new genus of ponerine ants from Queensland. *Trans. R. Soc. S. Aust.* 40: 33–37 [23 Dec. 1916] [33 pl 4]. Type species *Prodiscothyrea velutina* Wheeler, 1916 by monotypy.

Synonymy that of Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* 118: 173–362 [248].

This group is also found in the Neotropical, north Nearctic, Ethiopian and east Oriental regions; New Guinea, east Melanesia, New Caledonia and New Zealand in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Discothyrea bidens*** Clark, 1928

***Discothyrea bidens*** Clark, J. (1928). Australian Formicidae. *J. R. Soc. West. Aust.* 14: 29–41 pl 1 [24 Apr. 1928] [38]. Type data: syntypes (probable), NMV \*W, from Warburton, Vic.

Distribution: SE coastal, Murray-Darling basin, N.S.W., A.C.T., Vic. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Discothyrea crassicornis*** Clark, 1926

***Discothyrea crassicornis*** Clark, J. (1926). Australian Formicidae. *J. R. Soc. West. Aust.* 12: 43–51 pl 6 [25 Jan. 1926] [46]. Type data: syntypes, NMV \*W, from Manjimup, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Discothyrea leae*** Clark, 1934

***Discothyrea leae*** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* 8: 21–47 [29 pls 2–3]. Type data: syntypes (probable), SAMA \*W, from Mt. Lofty, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Discothyrea turtoni*** Clark, 1934

***Discothyrea turtoni*** Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* 8: 48–73 [53 pl 4]. Type data: syntypes, NMV \*W,F, from Beech Forest, Vic.

Distribution: SE coastal, Murray-Darling basin, A.C.T., N.S.W., Vic. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Discothyrea velutina*** (Wheeler, 1916)

***Prodiscothyrea velutina*** Wheeler, W.M. (1916). *Prodiscothyrea*, a new genus of ponerine ants from Queensland. *Trans. R. Soc. S. Aust.* 40: 33–37 [23 Dec. 1916] [34 pl 4]. Type data: syntypes, MCZ \*W,F, from Kuranda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Ectomomyrmex*** Mayr, 1867

***Ectomomyrmex*** Mayr, G.L. (1867). Adnotationes in Monographiam formicidarum Indo-Neerlandicarum. *Tijdschr. Entomol.* 10: 33–117 [83 pl 2] [redefined in Brown, W.L. jr. (1963). Characters and synonymies among the genera of ants. Part III. Some members of the tribe Ponerini (Ponerinae, Formicidae). *Breviora* 190: 1–10 (30 Sept. 1963)]. Type species *Ectomomyrmex javanus* Mayr, 1867 by subsequent designation, see Bingham, C.T. (1903). *The Fauna of British India, including Ceylon and Burma*. Hymenoptera. Vol. 2 Ants and cuckoo-wasps. London : Taylor & Francis [85].

This group is also found in the west Palearctic and Oriental regions; New Guinea, east Melanesia and south Polynesia in the Australian Region.



***Ectomomyrmex ruficornis* Clark, 1934**

***Ectomomyrmex ruficornis*** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [31 pls 2–3]. Type data: holotype, NMV \*W, from Cairns, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, open forest, closed forest; nest in ground layer.

***Gnamptogenys* Roger, 1863**

***Gnamptogenys*** Roger, J. (1863). Die neu aufgeführten Gattungen und Arten meines Formiciden-Verzeichnisses. *Berl. Entomol. Z.* **7**: 129–214 [June 1863] [174] [redefined in Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362]. Type species *Ponera tornata* Roger, 1861 by subsequent designation, see Emery, C. (1911). Hymenoptera. Fam. Formicidae. subfam. Ponerinae. in Wytman, P. (ed.) *Genera Insectorum*. Fasc. 118 Brussels 125 pp. 3 pls [44].

This group is also found in the Neotropical, south Nearctic and Oriental regions; New Guinea, east Melanesia (to Fiji) in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Gnamptogenys biroi* (Emery, 1902)**

***Stictoponera biroi*** Emery, C. (1902). Formicidarum species novae vel minus cognitae in collectione Musaei Nationalis Hungarici, quas in Nova-Guinea, Colonia Germanica, collegit L. Biró. *Termész. Füzet.* **25**: 152–160 [154]. Type data: holotype, probably MCG or MNH \*W, from Sattleburg, New Guinea.

Distribution: NE coastal, Qld.; also on New Guinea. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

***Heteroponera* Mayr, 1887**

***Heteroponera*** Mayr, G.L. (1887). Südamerikanische Formiciden. *Verh. Zool.-Bot. Ges. Wien* **37**: Abhand. 511–632 [532]. Type species *Heteroponera carinifrons* Mayr, 1887 by monotypy.

***Paranomopone*** Wheeler, W.M. (1915). *Paranomopone*, a new genus of ponerine ants from Queensland. *Psyche Camb.* **22**: 117–120 pl 8 [117]. Type species *Paranomopone relictata* Wheeler, 1915 by monotypy.

Synonymy that of Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [194].

This group is also found in the Neotropical Region; New Zealand in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Heteroponera imbellis* (Emery, 1895)**

***Acanthoponera imbellis*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [346]. Type data: holotype, MCG \*W, from Kamerunga, Qld.

***Ectatomma (Acanthoponera) imbellis hilare*** Forel, A. (1895). Nouvelles fourmis d'Australie, récoltées à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* **39**: 417–428 [421]. Type data: syntypes (probable), GMNH (probable) \*W, from Mackay, Qld.

***Acanthoponera (Anacanthoponera) imbellis scabra*** Wheeler, W.M. (1923). Ants of the genera *Myopias* and *Acanthoponera*. *Psyche Camb.* **30**: 175–192 [181]. Type data: syntypes, MCZ \*W, from Sydney, N.S.W.

***Acanthoponera occidentalis*** Clark, J. (1926). Australian Formicidae. *J. R. Soc. West. Aust.* **12**: 43–51 pl 6 [25 Jan. 1926] [47]. Type data: syntypes, NMV \*W, from National Park, W.A.

***Acanthoponera nigra*** Clark, J. (1930). New Formicidae, with notes on some little-known species. *Proc. R. Soc. Vict.* **43**: 2–25 [30 Aug. 1930] [6]. Type data: syntypes, NMV \*W, from Mt. William, Grampians, Vic.

Synonymy that of Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [195].

Distribution: NE coastal, Murray-Darling basin, S Gulfs, W plateau, SW coastal, Qld., Vic., W.A., A.C.T., S.A. Ecology: terrestrial, nocturnal, predator, woodland, open forest, closed forest; nest in ground layer.

***Heteroponera leae* (Wheeler, 1923)**

***Acanthoponera (Anacanthoponera) leae*** Wheeler, W.M. (1923). Ants of the genera *Myopias* and *Acanthoponera*. *Psyche Camb.* **30**: 175–192 [181]. Type data: syntypes, MCZ \*W, from The National Park, near Sydney, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

***Heteroponera relictata* (Wheeler, 1915)**

***Paranomopone relictata*** Wheeler, W.M. (1915). *Paranomopone*, a new genus of ponerine ants from Queensland. *Psyche Camb.* **22**: 117–120 [118 pl 8]. Type data: syntypes, MCZ \*W,F, from Kuranda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Hypoponera* Santschi, 1938**

***Hypoponera* Santschi, F. (1938).** Notes sur quelques *Ponera* Latr. *Bull. Soc. Entomol. Fr.* **43**: 78–80 [15 Apr. 1938]. [79] [proposed with subgeneric rank in *Ponera* Latreille, 1804; raised to genus and redefined in Taylor, R.W. (1967). A monographic revision of the ant genus *Ponera* Latreille; (Hymenoptera : Formicidae). *Pac. Insects Monogr.* **13**: 1–112]. Type species *Ponera abeillei* E. André, 1881 by original designation.

This group is also found in the Neotropical, south Nearctic, south Palearctic, Ethiopian, Malagasy and Oriental regions; widespread in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Hypoponera congrua* (Wheeler, 1934)**

***Ponera congrua* Wheeler, W.M. (1934).** Contributions to the fauna of Rottnest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* **20**: 137–163 [5 Oct. 1934] [142]. Type data: syntypes, MCZ \*W,F, from White Hill, Rottnest Is., W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Hypoponera convexiuscula* (Forel, 1900)**

***Ponera trigona convexiuscula* Forel, A. (1900).** Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [60]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Hypoponera decora* (Clark, 1934)**

***Ponera decora* Clark, J. (1934).** Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* **8**: 48–73 [56 pl 4]. Type data: syntypes, NMV \*W,F, from Gellibrand, Vic.

Distribution: SE coastal, Murray-Darling basin, Vic., N.S.W., Tas. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Hypoponera elliptica* (Forel, 1900)**

***Ponera truncata elliptica* Forel, A. (1900).** Ponerinae et Dorylinae d'Australie récoltées par MM. Turner,

Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [62]. Type data: syntypes, GMNH W,F, ANIC W, from unknown locality.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Hypoponera herbertonensis* (Forel, 1915)**

***Ponera pruinosa herbertonensis* Forel, A. (1915).** Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [24]. Type data: syntypes, GMNH W,F,M, other syntypes may exist, from Herberton and Malanda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Hypoponera mackayensis* (Forel, 1900)**

***Ponera coarctata mackayensis* Forel, A. (1900).** Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [61]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Hypoponera mina* (Wheeler, 1927)**

***Ponera mina* Wheeler, W.M. (1927).** The ants of Lord Howe Island and Norfolk Island. *Proc. Am. Acad. Arts Sci.* **62**: 121–153 [131]. Type data: syntypes, MCZ \*W,F,M, from Norfolk Is.

Distribution: Norfolk Is. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Hypoponera queenslandensis* (Forel, 1900)**

***Ponera queenslandensis* Forel, A. (1900).** Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [61]. Type data: syntypes, GMNH W,F, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Hypoponera rectidens* (Clark, 1934)**

***Ponera rectidens* Clark, J. (1934).** Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* **8**: 48–73 [57 pl 4]. Type data: syntypes (probable), NMV \*W, from Gellibrand, Vic.

Distribution: SE coastal, Murray-Darling basin, N.S.W., Tas., Vic. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Hypoponera scitula* (Clark, 1934)**

***Ponera scitula*** Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* **8**: 48–73 [55 pl 4]. Type data: syntypes, NMV \*W,F, from Turton's Track, Otway Range, Vic.

Distribution: SE coastal, Murray-Darling basin, N.S.W., Vic. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in ground layer.

***Hypoponera sulciceps* (Clark, 1928)**

***Ponera sulciceps*** Clark, J. (1928). Entomological Reports. Formicidae. in Report of the Victorian Field Naturalists' expedition through the Western District of Victoria. *Vict. Nat.* **45** suppl.: 39–44 [40]. Type data: syntypes, NMV \*W, from Mt. Arapiles, Vic.

Distribution: SE coastal, Murray-Darling basin, N.S.W., Vic. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Leptogenys* Roger, 1861**

***Leptogenys*** Roger, J. (1861). Die *Ponera*-Artigen Ameisen. *Berl. Entomol. Z.* **5**: 1–54 [41]. Type species *Leptogenys falcigera* Roger, 1861 by subsequent designation, see Bingham, C.T. (1903). *The Fauna of British India, including Ceylon and Burma*. Hymenoptera. Vol. 2 Ants and cuckoo-wasps. London : Taylor & Francis [52].

***Odontopelta*** Emery, C. (1911). Hymenoptera Fam. Formicidae subfam. Ponerinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 118 Brussels 125 pp. 3 pls [101] [proposed with subgeneric rank in *Leptogenys* Roger, 1861]. Type species *Leptogenys turneri* Forel, 1900 by monotypy.

***Dorylozelus*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia. 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 [4 Dec. 1915] [24 pls 1–3]. Type species *Leptogenys tricola* Taylor, 1969 (as *Dorylozelus mjobergi* Forel, 1915) by monotypy.

Synonymy that of Bolton, B. (1975). A revision of the ant genus *Leptogenys* Roger (Hymenoptera : Formicidae) in the Ethiopian region with a review of the Malagasy species. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **75**: 237–305 [5 Feb. 1975] [239].

This group is also found in the Neotropical, south Nearctic, Ethiopian, Malagasy and Oriental regions; New Guinea, east Melanesia and New Caledonia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Leptogenys angustinoda* Clark, 1934**

***Leptogenys (Lobopelta) angustinoda*** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [34 pls 2–3]. Type data: syntypes, NMV \*W,F, from Armidale, N.S.W.

Distribution: Murray-Darling basin, N.S.W., A.C.T. Ecology: terrestrial, noctidiurnal, nomadic, predator, woodland, open forest; nest in ground layer.

***Leptogenys anitae* Forel, 1915**

***Leptogenys (Lobopelta) anitae*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [29]. Type data: holotype, SMNH \*W, from Mt. Tambourine (=Tamborine Mt.), Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, closed forest; nest in ground layer.

***Leptogenys bidentata* Forel, 1900**

***Leptogenys (Lobopelta) bidentata*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [66]. Type data: syntypes (probable), GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, closed forest; nest in ground layer.

***Leptogenys chelifer* (Santschi, 1928)**

***Pseudoponera chelifer*** Santschi, F. (1928). Nouvelles fourmis d'Australie. *Bull. Soc. Vaud. Sci. Nat.* **56**: 465–483 [30 Aug. 1928] [466]. Type data: syntypes, BNHM W, from Beyfield (=Byfield), Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, open forest, closed forest; nest in ground layer.

***Leptogenys clarki* Wheeler, 1933**

***Leptogenys clarki*** Wheeler, W.M. (1933). *Colony-founding among ants with an account of some primitive Australian species*. Cambridge : Harvard Univ. Press 179 pp. [82]. Type data: syntypes, MCZ \*W, from Geraldton, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, nomadic, predator, woodland, open forest; nest in ground layer.

***Leptogenys conigera* (Mayr, 1876)*****Leptogenys conigera conigera* (Mayr, 1876)**

***Lobopelta conigera*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [89]. Type data: syntypes, NHMW W, from Peak Downs and Gayndah, Qld.



Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, woodland, open forest; nest in ground layer.

***Leptogenys conigera adlerzi* Forel, 1900**

***Leptogenys (Lobopelta) conigera adlerzi*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [65]. Type data: syntypes, GMNH W, ANIC W, from Townsville and Charters Towers, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, woodland, open forest; nest in ground layer.

***Leptogenys conigera centralis* Wheeler, 1915**

***Leptogenys (Lobopelta) conigera centralis*** Wheeler, W.M. (1915). Hymenoptera. *Trans. R. Soc. S. Aust.* **39**: 805–823 pls 64–66 [Dec. 1915] [805]. Type data: syntypes, MCZ \*W,M, from Moorilyanna, S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, noctidiurnal, nomadic, predator, woodland; nest in ground layer.

***Leptogenys conigera exigua* Crawley, 1921**

***Leptogenys (Lobopelta) conigera exigua*** Crawley, W.C. (1921). New and little-known species of ants from various localities. *Ann. Mag. Nat. Hist. (9)* **7**: 87–97 [89]. Type data: syntypes (probable), BMNH \*W, from Darwin, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, nomadic, predator, woodland, open forest; nest in ground layer.

***Leptogenys conigera mutans* Forel, 1900**

***Leptogenys (Lobopelta) conigera mutans*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [65]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, woodland, open forest; nest in ground layer.

***Leptogenys darlingtoni* Wheeler, 1933**

***Leptogenys (Lobopelta) darlingtoni*** Wheeler, W.M. (1933). *Colony-founding among ants with an account of some primitive Australian species*. Cambridge: Harvard Univ. Press 179 pp. [90]. Type data: syntypes, MCZ \*W,F, from near Mullewa, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, nomadic, predator, woodland, open forest; nest in ground layer.

***Leptogenys diminuta* (F. Smith, 1854)**

***Ponera diminuta*** Smith, F. (1854). Catalogue of the hymenopterous insects collected at Sarawak, Borneo;

Mount Ophir, Malacca; and at Singapore, by A.R. Wallace. *J. Linn. Soc. Zool.* **2**: 42–130 [69]. Type data: status unknown, ?BMNH, from Borneo (Sarawak).

***Leptogenys diminuta yarrabahna* Forel, 1915**

***Leptogenys (Lobopelta) diminuta yarrabahna*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [29]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Yarrabah and Mt. Bellenden Ker, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, woodland, open forest, closed forest; nest in ground layer.

***Leptogenys ebenina* Forel, 1915**

***Leptogenys (Lobopelta) ebenina*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [30]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Malanda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, closed forest; nest in ground layer.

***Leptogenys excisa* (Mayr, 1876)**

***Leptogenys excisa excisa* (Mayr, 1876)**

***Lobopelta excisa*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [89]. Type data: syntypes, NHMW W, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, open forest, closed forest; nest in ground layer.

***Leptogenys excisa major* Forel, 1910**

***Leptogenys (Lobopelta) excisa major*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [18]. Type data: syntypes, GMNH W, from Tweed River, N.S.W.

Distribution: SE coastal, NE coastal, Qld., N.S.W. Ecology: terrestrial, noctidiurnal, nomadic, predator, open forest, closed forest; nest in ground layer.

***Leptogenys fallax* (Mayr, 1876)**

***Leptogenys fallax fallax* (Mayr, 1876)**

***Lobopelta fallax*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [88]. Type data: syntypes, NHMW W,M, from Cape York, Rockhampton, Gayndah and Peak Downs, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, woodland, open forest; nest in ground layer.

***Leptogenys fallax fortior* Forel, 1900**

***Leptogenys (Lobopelta) fallax fortior*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [64]. Type data: syntypes, GMNH W,M, ANIC W,M, from Cairns, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, woodland, open forest; nest in ground layer.

***Leptogenys hackeri* Clark, 1934**

***Leptogenys (Lobopelta) hackeri*** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [35 pls 2–3]. Type data: syntypes, NMV \*W, from Cascade, N.S.W. and "National Park", Qld.

Distribution: NE coastal, SE coastal, Qld., N.S.W. Ecology: terrestrial, noctidiurnal, nomadic, predator, closed forest; nest in ground layer.

***Leptogenys intricata* Viehmeyer, 1924**

***Leptogenys (Lobopelta) intricata*** Viehmeyer, H. (1924). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **13**: 219–229 [228]. Type data: syntypes, ZMB \*W,M, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, nomadic, predator, closed forest; nest in ground layer.

***Leptogenys magna* Forel, 1900**

***Leptogenys (Lobopelta) magna*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [65]. Type data: syntypes, GMNH W,M, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, closed forest; nest in ground layer.

***Leptogenys mjobergi* Forel, 1915**

***Leptogenys (Lobopelta) mjobergi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [32]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Blackall (=Blackall) Range, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, closed forest; nest in ground layer.

***Leptogenys neutralis* Forel, 1907**

***Leptogenys (Lobopelta) neutralis*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [271]. Type data: holotype, probably destroyed in ZMH in WW II, from Pickering Brook, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, nomadic, predator, closed forest; nest in ground layer.

***Leptogenys sjostedti* Forel, 1915**

***Leptogenys sjostedti*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [27]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Lamington Plateau and Malanda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, open forest, closed forest; nest in ground layer.

***Leptogenys tricola* Taylor, 1969**

***Dorylozelus mjobergi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [25] [*non Leptogenys mjobergi* Forel, 1915]. Type data: holotype, SMNH W, from Blackall (=Blackall) Range, Qld.

***Leptogenys tricola*** Taylor, R.W. (1969). The identity of *Dorylozelus mjobergi* Forel (Hymenoptera : Formicidae). *J. Aust. Entomol. Soc.* **8**: 131–133 [132] [*nom. nov.* for *Dorylozelus mjobergi* Forel, 1915].

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, woodland, open forest, closed forest; nest in ground layer.

***Leptogenys turneri* Forel, 1900*****Leptogenys turneri turneri* Forel, 1900**

***Leptogenys turneri*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [67]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, closed forest; nest in ground layer.

***Leptogenys turneri longensis* Forel, 1915**

***Leptogenys (Odontopelta) turneri longensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [33]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Malanda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, closed forest; nest in ground layer.

***Mesoponera* Emery, 1901**

***Mesoponera*** Emery, C. (1901). Notes sur les sous-familles des Dorylines et Ponérines (famille des Formicides). *Ann. Soc. Entomol. Belg.* **45**: 32–54 [43] [proposed with subgeneric rank in *Euponera* Forel, 1891; raised to genus and redefined in Brown, W.L. jr. (1958).

A review of the ants of New Zealand (Hymenoptera). *Acta Hymenopt.* 1: 1–50]. Type species *Ponera caffraria* F. Smith, 1858 by original designation.

This group is also found in the Ethiopian, Malagasy and Oriental regions; New Guinea, east Melanesia and New Zealand in the Australian Region.

***Mesoponera australis* (Forel, 1900)**

*Ponera melanaria australis* Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* 44: 54–77 [62]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, SE coastal, N.S.W., Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in soil. Biological references: Wilson, E.O. (1958). Studies of the ant fauna of Melanesia. III. *Rhytidoponera* in Western Melanesia and the Moluccas. IV. The tribe Ponerini. *Bull. Mus. Comp. Zool.* 119: 301–371 (taxonomy, raised to species).

***Myopias* Roger, 1861**

*Myopias* Roger, J. (1861). Die *Ponera*-Artigen Ameisen. *Berl. Entomol. Z.* 5: 1–54 [39]. Type species *Myopias amblyops* Roger, 1861 by monotypy.

This group is also found in the Oriental Region; New Guinea and east Melanesia in the Australian Region.

***Myopias tasmaniensis* Wheeler, 1923**

*Myopias tasmaniensis* Wheeler, W.M. (1923). Ants of the genera *Myopias* and *Acanthoponera*. *Psyche Camb.* 30: 175–192 [177]. Type data: syntypes, MCZ \*W, from Hobart, Tas.

*Trapeziopelta diadela* Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* 8: 48–73 [54 pl 4]. Type data: syntypes, NMV \*W,F, from Turton's Track, Beech Forest, Vic.

Synonymy that of Brown, W.L. jr. (1953). An Australian *Trapeziopelta* (Hymenoptera : Formicidae). *Psyche Camb.* 60: 51.

Distribution: SE coastal, Vic., Tas. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Myopopone* Roger, 1861**

*Myopopone* Roger, J. (1861). Die *Ponera*-Artigen Ameisen. *Berl. Entomol. Z.* 5: 1–54 [49] [redefined in Brown, W.L. jr. (1960). Contributions toward a reclassification of the Formicidae III Tribe Amblyoponini (Hymenoptera). *Bull. Mus. Comp. Zool.* 122: 143–230]. Type species *Amblyopone castaneus* F. Smith, 1860 (as *Myopopone maculata* Roger, 1861) by subsequent designation, see Bingham, C.T. (1903). *The fauna of British India, including Ceylon and Burma*.

Hymenoptera. Vol. 2 Ants and cuckoo-wasps. London : Taylor & Francis [33].

This group is also found in the east Oriental Region; New Guinea and east Melanesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Myopopone castanea* (F. Smith, 1860)**

*Amblyopone castaneus* Smith, F. (1860). Catalogue of hymenopterous insects collected by Mr A.R. Wallace in the islands of Bachian, Kaisaa, Amboyne, Gilolo, and at Dory in New Guinea. *J. Linn. Soc. Zool.* 5: 93–143 pl 1 [18 July 1860] [105]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist. (10)* 10: 441–476. Type data: syntypes (probable), BMNH \*W, from Bachian, Indonesia.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Mystrium* Roger, 1862**

*Mystrium* Roger, J. (1862). Einige neue exotische Ameisen - Gattungen und Arten. *Berl. Entomol. Z.* 6: 233–254 [245 pl 1] [redefined in Brown, W.L. jr. (1960). Contributions toward a reclassification of the Formicidae. III Tribe Amblyoponini (Hymenoptera). *Bull. Mus. Comp. Zool.* 122: 143–230]. Type species *Mystrium mysticum* Roger, 1862 by monotypy.

This group is also found in the north Ethiopian, Malagasy and east Oriental regions; New Guinea in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Mystrium camillae* Emery, 1889**

*Mystrium camillae* Emery, C. (1889). Viaggio di Leonardo Fea in Birmania e regioni vicine. XX. Formiche di Birmania e del Tenasserim raccolte da Leonardo Fea (1885–87). *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* 27: 485–520 pls 10–11 [491]. Type data: syntypes, MCG \*W,F, from Bhamo, Burma.

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.



***Odontomachus* Latreille, 1804**

***Odontomachus*** Latreille, P.A. (1804). *Nouveau Dictionnaire d'Histoire Naturelle*. Paris Vol. 24 [179]. Type species *Formica haematoda* Linnaeus, 1758 by monotypy. Compiled from secondary source: Donisthorpe, H. (1943). A list of the type-species of the genera and subgenera of the Formicidae. *Ann. Mag. Nat. Hist.* (11) 10: 649–688.

This group is also found in the Neotropical, south Nearctic, south Palearctic, Ethiopian, Malagasy and Oriental regions; New Guinea, east Melanesia, New Caledonia and parts of Polynesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Odontomachus cephalotes* F. Smith, 1863**

***Odontomachus cephalotes*** Smith, F. (1863). Catalogue of hymenopterous insects collected by Mr A.R. Wallace in the islands of Mysol, Ceram, Waigiu, Bouru and Timor. *J. Linn. Soc. Zool.* 7: 6–48 [4 Mar. 1863] [19]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*W, from Ceram, Indonesia.

Distribution: N coastal, N Gulf, NE coastal, N.T., Qld.; also in New Guinea, the Moluccas and other parts of Indonesia. Ecology: terrestrial, diurnal, predator, closed forest; nest in ground layer.

***Odontomachus ruficeps* F. Smith, 1858**

***Odontomachus ruficeps*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [81]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*W, from Australia.

***Odontomachus coriarius*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [85]. Type data: syntypes, NHMW W,M, from Rockhampton, Qld.

***Odontomachus coriarius semicircularis*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [85]. Type data: syntypes, NHMW W, from Peak Downs and Gayndah, Qld.

***Odontomachus coriarius magnus*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [85]. Type data: syntypes, NHMW W, from Rockhampton, Qld.

***Odontomachus sharpei*** Forel, A. (1893). Nouvelles fourmis d'Australie et des Canaries. *Ann. Soc. Entomol. Belg.* 37: 454–466 [458]. Type data: syntypes (probable), GMNH F, from Adelaide River, N.T.

***Odontomachus ruficeps acutidens*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* 44: 54–77 [56]. Type data: holotype (probable), GMNH W, from Adelaide River, N.T.

***Odontomachus ruficeps rubriceps*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [33]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Kimberley distr., Noonkanbah and Broome, W.A.

***Odontomachus ruficeps rufescens*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [34]. Type data: syntypes, GMNH W, other syntypes may exist, from Kimberley distr., W.A.

***Odontomachus septentrionalis*** Crawley, W.C. (1915). Ants from north and central Australia, collected by G.F. Hill. Part I. *Ann. Mag. Nat. Hist.* (8) 15: 130–136 [130]. Type data: holotype, BMNH \*W, from Stapleton, N.T.

***Odontomachus coriarius obscura*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) 9: 427–448 [437]. Type data: syntypes (probable), OUM \*W, from W.A.

Synonymy that of Brown, W.L. jr. (1976). Contributions toward a reclassification of the Formicidae. Part VI. Ponerinae, tribe Ponerini, subtribe Odontomachiti. Section A. Introduction, subtribal characters. Genus *Odontomachus*. *Studia Entomol.* 19: 67–171 [105].

Distribution: NE coastal, N coastal, Qld., W.A., N.T. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Odontomachus turneri* Forel, 1900**

***Odontomachus ruficeps turneri*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* 44: 54–77 [56]. Type data: syntypes, GMNH W, ANIC W, from Townsville, Qld.

Distribution: NE coastal, N coastal, N Gulf, N.T., Qld. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer. Biological references: Brown, W.L. jr. (1978). A supplement to the world revision of *Odontomachus* (Hymenoptera : Formicidae). *Psyche Camb.* 83: 281–285 (reinstated from synonymy).

***Onychomyrmex* Emery, 1895**

***Onychomyrmex*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* 39: 345–358 [349] [redefined in Brown, W.L. jr. (1960). Contributions toward a reclassification of the Formicidae. III. Tribe Amblyoponini (Hymenoptera).

*Bull. Mus. Comp. Zool.* **122**: 143–230]. Type species *Onychomyrmex hedleyi* Emery, 1895 by monotypy.

*Onychomyrmex doddi* Wheeler, 1916

*Onychomyrmex doddi* Wheeler, W.M. (1916). The Australian ants of the genus *Onychomyrmex*. *Bull. Mus. Comp. Zool.* **60**: 45–54 pls 1–2 [53]. Type data: syntypes, MCZ \*W,F, from Kuranda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, closed forest; nest in ground layer, army ant.

*Onychomyrmex hedleyi* Emery, 1895

*Onychomyrmex hedleyi* Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [350]. Type data: syntypes, MCG W, ANIC W, from Mt. Bellenden Ker, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, closed forest; nest in ground layer, army ant.

*Onychomyrmex mjobergi* Forel, 1915

*Onychomyrmex mjobergi* Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [2]. Type data: syntypes, GMNH W, other syntypes may exist, from Herberton, Atherton and Cedar Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, open forest, closed forest; nest in ground layer, army ant.

*Platythyrea* Roger, 1863

*Platythyrea* Roger, J. (1863). Die neu aufgeführten Gattungen und Arten meines Formiciden-Verzeichnisses. *Berl. Entomol. Z.* **7**: 129–214 [June 1863] [172]. Type species *Pachycondyla punctata* F. Smith, 1858 by subsequent designation, see Bingham, C.T. (1903). *The Fauna of British India, including Ceylon and Burma*. Hymenoptera. Vol. 2 Ants and cuckoo-wasps. London : Taylor & Francis [73].

*Eubothroponera* Clark, J. (1930). New Formicidae, with notes on some little-known species. *Proc. R. Soc. Vict.* **43**: 2–25 [30 Aug. 1930] [8]. Type species *Eubothroponera dentinodis* Clark, 1930 by original designation.

Synonymy that of Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythyreini, Cerapachyini, Cyldromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* **5**: 1–116 [6].

This group is also found in the Neotropical, north Nearctic, Ethiopian and Oriental regions; New Guinea and east Melanesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest*

*ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

*Platythyrea brunnipes* (Clark, 1938)

*Eubothroponera brunnipes* Clark, J. (1938). Reports of the McCoy Society for Field Investigation and Research. No. 2. Sir Joseph Bank Islands. Part I. Formicidae (Hymenoptera). *Proc. R. Soc. Vict.* **50**: 356–382 [361]. Type data: syntypes (probable), NMV \*W, from Reevesby Is., S.A.

Distribution: S Gulfs, SW coastal, W plateau, W.A., S.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

*Platythyrea dentinodis* (Clark, 1930)

*Eubothroponera dentinodis* Clark, J. (1930). New Formicidae, with notes on some little-known species. *Proc. R. Soc. Vict.* **43**: 2–25 [30 Aug. 1930] [9]. Type data: syntypes, NMV \*W, from Bungulla, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

*Platythyrea micans* (Clark, 1930)

*Eubothroponera micans* Clark, J. (1930). New Formicidae, with notes on some little-known species. *Proc. R. Soc. Vict.* **43**: 2–25 [30 Aug. 1930] [10]. Type data: syntypes, NMV \*W, from Mundaring, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

*Platythyrea parallela* (F. Smith, 1859)

*Ponera parallela* Smith, F. (1859). Catalogue of hymenopterous insects collected by Mr A.R. Wallace at the islands of Aru and Key. *J. Linn. Soc. Zool.* **3**: 132–178 [1 Feb. 1859] [143]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes, BMNH \*W, from Aru IIs., Indonesia.

*Platythyrea pusilla australis* Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [10]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Blackall (=Blackall) Range and Mt. Tambourine (=Tamborine Mt.), Qld.

*Platythyrea parva* Crawley, W.C. (1915). Ants from north and central Australia, collected by G.F. Hill. Part I. *Ann. Mag. Nat. Hist.* (8) **15**: 130–136 [133]. Type data: syntypes, BMNH \*W, from Darwin, N.T.

*Platythyrea cephalotes* Viehmeyer, H. (1924). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **13**: 219–229 [224]. Type data: holotype, ZMB \*W, from Trial Bay, N.S.W.



Synonymy that of Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythreini, Cerapachyini, Cylindromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* 5: 1–116 [8].

Distribution: N coastal, N Gulf, NE coastal, SE coastal, Murray-Darling basin, N.T., Qld., N.S.W., A.C.T. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in ground layer.

***Platthyrea turneri* Forel, 1895**

***Platthyrea turneri*** Forel, A. (1895). Nouvelles fourmis d'Australie, récoltée à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* 39: 417–428 [420]. Type data: syntypes, GMNH W, from Mackay, Qld.

***Pachycondyla (Bothroponera) tasmaniensis*** Forel, A. (1913). Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* 49: 173–196 pl 2 [176]. Type data: syntypes, GMNH W, from Hobart, Tas.

***Eubothroponera bicolor*** Clark, J. (1930). New Formicidae, with notes on some little-known species. *Proc. R. Soc. Vict.* 43: 2–25 [30 Aug. 1930] [11]. Type data: syntypes, NMV \*W, from Ludlow, W.A.

***Eubothroponera reticulata*** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* 8: 21–47 [33 pls 2–3]. Type data: syntypes (probable), NMV \*W, from Sutherland, N.S.W.

***Eubothroponera septentrionalis*** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* 8: 21–47 [34 pls 2–3]. Type data: syntypes (probable), QM \*W, from Townsville, Qld.

Synonymy that of Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythreini, Cerapachyini, Cylindromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* 5: 1–116 [9].

Distribution: NE coastal, SE coastal, SW coastal, Qld., N.S.W., Tas., W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Ponera* Latreille, 1804**

***Ponera*** Latreille, P.A. (1804). *Nouveau Dictionnaire d'Histoire Naturelle*. Paris Vol. 24 [179]. Type species *Formica coarctata* Latreille, 1802 (as *Formica contracta* Latreille, 1802) by subsequent designation, see Westwood, J.O. (1840). *An Introduction to the Modern Classification of Insects*; founded on the natural habits and corresponding organisation of the different families. Vol. 2. Synopsis of the genera of British Insects. London: Longman [Synopsis 83]. Compiled from secondary source: Taylor, R.W. (1967). A monographic revision of the ant genus *Ponera* Latreille. (Hymenoptera: Formicidae). *Pac. Insects Monogr.* 13: 1–112 [30 May 1967].

This group is also found in the north Neotropical, Nearctic, Palearctic and east Oriental regions; New Guinea, east Melanesia, New Caledonia, New Zealand (N. Is.) and parts of Polynesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington: Smithsonian Institution Press.

***Ponera clavicornis* Emery, 1900**

***Ponera clavicornis*** Emery, C. (1900). Formicidarum species novae vel minus cognitae in collectione Musaei Nationalis Hungarici, quas in Nova-Guinea, Colonia Germanica, collegit L. Biró. *Termész. Füzet.* 23: 310–338 [1 Aug. 1900] [317 pl 8]. Type data: syntypes (probable), probably MCG\* or MNH, from Friedrich-Wilhelmshafen (=Madang), New Guinea.

Distribution: NE coastal, Qld.; also in New Guinea. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Ponera leae* Forel, 1913**

***Ponera leae*** Forel, A. (1913). Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* 49: 173–196 pl 2 [174]. Type data: holotype, GMNH W, from Tas.

***Ponera leae oculata*** Wheeler, W.M. (1927). The ants of Lord Howe Island and Norfolk Island. *Proc. Am. Acad. Arts Sci.* 62: 121–153 [130] [non *Ponera oculata* F. Smith, 1858]. Type data: syntypes, MCZ \*W,F, from Norfolk Is.

***Ponera leae norfolkensis*** Wheeler, W.M. (1935). Check list of the ants of Oceania. *Occ. Pap. Bernice P. Bishop Mus.* 11(11): 1–56 [13] [nom. nov. for *Ponera leae oculata* Wheeler, 1927].

***Ponera exedra*** Wilson, E.O. (1957). The *tenuis* and *selenophora* groups of the ant genus *Ponera* (Hymenoptera: Formicidae). *Bull. Mus. Comp. Zool.* 116: 353–386 [364]. Type data: holotype, MCZ \*W, from Arthurs Seat at McCrae, Vic.

Synonymy that of Taylor, R.W. (1967). A monographic revision of the ant genus *Ponera* Latreille (Hymenoptera: Formicidae). *Pac. Insects Monogr.* 13: 1–112 [88].

Distribution: NE coastal, SE coastal, Qld., N.S.W., Vic., S.A., Tas., Norfolk Is. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Ponera selenophora* Emery, 1900**

***Ponera selenophora*** Emery, C. (1900). Formicidarum species novae vel minus cognitae in collectione Musaei Nationalis Hungarici, quas in Nova-Guinea, Colonia Germanica, collegit L. Biró. *Termész. Füzet.* 23: 310–338 [1 Aug. 1900] [317 pl 8]. Type data: syntypes, probably MCG\* or MNH\*, from Lemien, New Guinea.



Distribution: NE coastal, Qld.; also in New Guinea. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Prionogenys* Emery, 1895**

***Prionogenys*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [348]. Type species *Prionogenys podenzanai* Emery, 1895 by monotypy.

This group is also found in New Caledonia.

***Prionogenys podenzanai* Emery, 1895**

***Prionogenys podenzanai podonzanai* Emery, 1895**

***Prionogenys podenzanai*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [349]. Type data: syntypes, MCG \*W, from Mt. Bellenden Ker, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, nomadic, predator, closed forest; nest in ground layer.

***Prionogenys podenzanai malandensis* Forel, 1915**

***Prionogenys podenzanai malandensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [27]. Type data: syntypes, GMNH W, other syntypes may exist, from Malanda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, nomadic, predator, closed forest; nest in ground layer.

***Prionopelta* Mayr, 1866**

***Prionopelta*** Mayr, G.L. (1866). Myrmecologische beiträge. *Sber. Akad. Wiss. Wien* **53**: Abt. 1 484–517 [503] [redefined in Brown, W.L. jr. (1960). Contributions toward a reclassification of the Formicidae. III. Tribe Amblyoponini (Hymenoptera). *Bull. Mus. Comp. Zool.* **122**: 143–230]. Type species *Prionopelta punctulata* Mayr, 1866 by monotypy.

This group is also found in the Neotropical, south Nearctic, Ethiopian, Malagasy and east Oriental regions; New Guinea, east Melanesia, New Caledonia and parts of Polynesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Prionopelta opaca* Emery, 1897**

***Prionopelta opaca*** Emery, C. (1897). Formicidarum species novae vel minus cognitae in collectione Musaei Nationalis Hungarici, quas in Nova-Guinea, Colonia

Germanica, collegit L. Biró. *Termész. Füzet.* **20**: 571–599 pl 14–15 [596]. Type data: syntypes, probably MCG or MNH \*W,M,F, from New Guinea.

Distribution: NE coastal, SE coastal, N.S.W., Vic., Qld.; also in New Guinea and Micronesia. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Probolomyrmex* Mayr, 1901**

***Probolomyrmex*** Mayr, G.L. (1901). Südafrikanische Formiciden, gesammelt von Dr. Hans Brauns. *Ann. Natl. Mus. Wien* **16**: 1–30 pls 1–2 [2] [redefined in Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, Tribes Platythyreini, Cerapachyini, Cyliandromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* **5**: 1–116]. Type species *Probolomyrmex filiformis* Mayr, 1901 by monotypy.

This group is also found in the north Neotropical, Ethiopian and east Oriental regions, New Guinea and east Melanesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Probolomyrmex greavesi* Taylor, 1965**

***Probolomyrmex greavesi*** Taylor, R.W. (1965). A monographic revision of the rare tropicopolitan ant genus *Probolomyrmex* Mayr (Hymenoptera : Formicidae). *Trans. R. Entomol. Soc. Lond.* **117**: 345–365 [31 Dec. 1965] [358]. Type data: holotype, ANIC W, from Mt. Stromlo, A.C.T.

Distribution: Murray-Darling basin, A.C.T. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Proceratium* Roger, 1863**

***Proceratium*** Roger, J. (1863). Die neu aufgeführten Gattungen und Arten meines Formiciden-Verzeichnisses. *Berl. Entomol. Z.* **7**: 129–214 [June 1863] [171]. Type species *Proceratium silaceum* Roger, 1863 by monotypy.

This group is also found in the Neotropical, Nearctic, Palearctic, north Ethiopian, Malagasy, east Oriental regions; New Guinea and east Melanesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Proceratium papuanum* Emery, 1897**

***Proceratium papuanum*** Emery, C. (1897). Formicidarum species novae vel minus cognitae in collectione Musaei Nationalis Hungarici, quas in Nova-Guinea, Colonia Germanica, collegit L. Biró. *Termész. Füzet.* **20**: 571–599 pls 14–15 [592]. Type data: holotype, MCG \*F, from New Guinea.

Distribution: NE coastal, SE coastal, N.S.W., Qld., Lord Howe Is. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Proceratium stictum* Brown, 1958**

***Proceratium stictum*** Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [336]. Type data: holotype, MCZ \*W, from Kuranda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Rhytidoponera* Mayr, 1862**

***Rhytidoponera*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* **12**: Abhand. 649–776 [731 pl 19] [proposed with subgeneric rank in *Ectatomma* F. Smith, 1858]. Type species *Ponera araneoides* Le Guillou, 1841 by subsequent designation, see Emery, C. (1911). Hymenoptera Fam. Formicidae subfam. Ponerinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 118 Brussels 125 pp. 3 pls [37].

***Chalcoponera*** Emery, C. (1897). Viaggio di Lamberto Loria nella Papuasia-orientale 18. Formiche raccolte nella Nuova Guinea. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **38**: 546–594 [22 Nov. 1897] [548 pl 1] [proposed with subgeneric rank in *Rhytidoponera* Mayr, 1862]. Type species *Ponera metallica* F. Smith, 1858 by subsequent designation, see Emery, C. (1911). Hymenoptera Fam. Formicidae subfam. Ponerinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 118 Brussels 125 pp. 3 pls [38].

Synonymy that of Brown, W.L. jr. (1953). Characters and synonymies among the genera of ants. Part I. *Breviora* **11**: 1–13 [20 Mar. 1953] [2].

This group is also found in the east Oriental Region; New Guinea, east Melanesia, New Caledonia and Timor in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Rhytidoponera aciculata* (F. Smith, 1858)**

***Ectatomma aciculata*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum

216 pp. 14 pls [27 Mar. 1858] [104]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Hunter River, N.S.W.

***Ectatomma (Rhytidoponera) cristatum caro*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [11]. Type data: syntypes, GMNH W, ANIC W, from N.S.W.

Synonymy that of Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* **9**: 14–89 pls 3–6 [55].

Distribution: SE coastal, N.S.W., Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest, closed forest; nest in soil.

***Rhytidoponera anceps* Emery, 1898**

***Rhytidoponera anceps*** Emery, C. (1898). Descrizioni di formiche nuove Malesi e Australiane. Note sinonimiche. *Rec. Sess. Accad. Sci. Ist. Bologna (ns)* **2**: 231–245 [233]. Type data: holotype, MCG W, from Qld.

Distribution: NE coastal, SW coastal, Qld., W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Rhytidoponera araneoides* (Le Guillou, 1841)**

***Ponera araneoides*** Le Guillou, E.J.F. (1841). Catalogue raisonné des insectes hyménoptères recueillis dans le voyage de circumnavigation des corvettes l'*Astrolabe* et la *Zélée*. *Ann. Soc. Entomol. Fr.* **10**: 311–324 [317]. Type data: syntypes (probable), MNHP (probable) \*W, from Salomon (=Solomon) IIs.

***Rhytidoponera araneoides arcuata*** Stitz, H. (1911). Australische Ameisen (Neu-Guinea und Salomons-Inseln, Festland, Neu-Seeland). *Sber. Ges. Naturf. Freunde Berl.* **1911**: 351–381 [352]. Type data: syntypes, ZMB \*W, from Cape York, Qld.

Synonymy that of Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [202].

Distribution: NE coastal, Qld.; also in New Guinea and Solomon IIs. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Rhytidoponera aspera* (Roger, 1860)**

***Ponera metallica aspera*** Roger, J. (1860). Die *Ponera*-Artigen Ameisen. *Berl. Entomol. Z.* **4**: 278–312 [308]. Type data: holotype, BMN (probable) \*W, from Australia (as New Holland).

***Rhytidoponera (Chalcoponera) arnoldi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [14]. Type data: syntypes, GMNH W, other syntypes may exist, from Healesville, Vic.

Synonymy that of Brown, W.L. jr. (1954). Systematic and other notes on some of the smaller species of the ant genus *Rhytidoponera* Mayr. *Breviora* 33: 1–11 [9].

Distribution: SE coastal, Murray-Darling basin, N.S.W., Vic. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Rhytidoponera aurata* (Roger, 1861)**

*Ponera (Ectatomma) aurata* Roger, J. (1861). Myrmicologische Nachlese. *Berl. Entomol. Z.* 5: 163–174 [169]. Type data: holotype, whereabouts unknown, from Australia.

*Rhytidoponera flava* Crawley, W.C. (1915). Ants from north and south-west Australia (G.F. Hill, Rowland Turner) and Christmas Island, Straits Settlements. Part II. *Ann. Mag. Nat. Hist.* (8) 15: 232–239 [232]. Type data: syntypes, BMNH \*M, from Darwin, N.T.

Synonymy that of Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* 9: 14–89 pls 3–6 [27].

Distribution: N coastal, N Gulf, NE coastal, N.T., Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Rhytidoponera barnardi* Clark, 1936**

*Rhytidoponera barnardi* Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* 9: 14–89 pls 3–6 [54]. Type data: syntypes, NMV \*W, from Cape York, Qld.

Distribution: N Gulf, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Rhytidoponera barretti* Clark, 1941**

*Rhytidoponera barretti* Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* 12: 71–94 [81 pl 13]. Type data: syntypes, NMV \*W, from Harts Range, N.T.

Distribution: Lake Eyre basin, N.T. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.

***Rhytidoponera borealis* Crawley, 1918**

*Rhytidoponera (ChalcoPONera) numeensis borealis* Crawley, W.C. (1918). Some new Australian ants. *Entomol. Rec. J. Var.* 30: 86–92 [88]. Type data: syntypes (probable), possibly OUM, from Stapleton, N.T.

*ChalcoPONera brunnea* Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* 12: 71–94 [86 pl 13]. Type data: syntypes, NMV \*W, from Koolpinyah, N.T.

Synonymy that of Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* 118: 173–362 [202].

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Rhytidoponera carinata* Clark, 1936**

*Rhytidoponera carinata* Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* 9: 14–89 pls 3–6 [54]. Type data: syntypes (probable), NMV \*W, from Borroloola, N.T.

Distribution: N Gulf, N.T. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.

***Rhytidoponera cerastes* Crawley, 1925**

*Rhytidoponera cerastes* Crawley, W.C. (1925). New ants from Australia. II. *Ann. Mag. Nat. Hist.* (9) 16: 577–598 [584]. Type data: syntypes, OUM \*W, from Derby, W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.

***Rhytidoponera chalybaea* Emery, 1901**

*Rhytidoponera impressa chalybaea* Emery, C. (1901). Notes sur les sous-familles des Dorylines et Ponérines (famille des Formicides). *Ann. Soc. Entomol. Belg.* 45: 32–54 [51]. Type data: holotype (probable), MCG W, from N.S.W.

*Ectatomma (Rhytidoponera) cyrus* Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* 18: 1–94 [13]. Type data: syntypes, GMNH W,F, ANIC W, from Ballina, N.S.W.

Synonymy that of Brown, W.L. jr. (1954). Systematic and other notes on some of the smaller species of the ant genus *Rhytidoponera* Mayr. *Breviora* 33: 1–11 [4].

Distribution: NE coastal, SE coastal, Qld., N.S.W. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer. Biological references: Ward, P.S. (1980). Genetic variation and population differentiation in the *Rhytidoponera impressa* group, a species complex of ponerine ants (Hymenoptera : Formicidae). *Evolution* 34: 1060–1076 (genetic variation).

***Rhytidoponera chnoopyx* Brown, 1958**

*Rhytidoponera chnoopyx* Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* 118: 173–362 [269]. Type data: holotype, MCZ \*W, from Millaa Millaa, Atherton Tableland, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Rhytidoponera clarki* Donisthorpe, 1943**

*Ectatomma (Rhytidoponera) metallicum obscurum* Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* 44: 54–77 [60] [*non Ectatomma (HolcoPONera) obscurum*



Emery, 1869 = *Holcoponera obscura* (Emery, 1869)]. Type data: syntypes, GMNH W,F,M, ANIC W, from Mackay, Qld.

***Chalcoponera hilli*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* **12**: 71–94 [85 pl 13] [*non Rhytidoponera hilli* Crawley, 1915]. Type data: syntypes, NMV \*W, from Palm Is., Qld.

***Rhytidoponera (Chalcoponera) clarki*** Donisthorpe, H. (1943). Myrmecological gleanings. *Proc. R. Entomol. Soc. Lond. (B)* **12**: 115–116 [115] [*nom. nov.* for *Chalcoponera hilli* Clark, 1941].

Synonymy that of Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [203].

Distribution: NE coastal, Great Barrier Reef, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera confusa*** Ward, 1980

***Rhytidoponera confusa*** Ward, P.S. (1980). A systematic revision of the *Rhytidoponera impressa* group (Hymenoptera : Formicidae) in Australia and New Guinea. *Aust. J. Zool.* **28**: 475–498 [26 Aug. 1980] [482]. Type data: holotype, ANIC W, from Royal Natl. Park, N.S.W.

Distribution: SE coastal, NE coastal, Qld., Vic., N.S.W. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer. Biological references: Ward, P.S. (1980). Genetic variation and population differentiation in the *Rhytidoponera impressa* group, a species complex of ponerine ants (Hymenoptera : Formicidae). *Evolution* **34**: 1060–1076 (genetic variation).

***Rhytidoponera convexa*** (Mayr, 1876)

***Ectatomma convexum*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [92]. Type data: syntypes, NHMW W,M, from Rockhampton, Gayndah and Peak Downs, Qld.

***Rhytidoponera nigra*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* **9**: 14–89 pls 3–6 [81]. Type data: syntypes, SAMA \*W, from Mt. Serle and Owieandana, S.A.

Synonymy that of Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [272].

Distribution: NE coastal, S Gulfs, Qld., S.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Rhytidoponera cornuta*** (Emery, 1895)

***Ectatomma (Rhytidoponera) cornutum*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles

d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [347]. Type data: holotype (probable), MCG W, from Cooktown, Qld.

Distribution: NE coastal, N Gulf, N.T., Qld. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Rhytidoponera crassinodis*** (Forel, 1907)

***Ectatomma (Rhytidoponera) crassinode*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [270]. Type data: holotype, probably destroyed in ZMH in WW II, from Day Dawn, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera cristata*** (Mayr, 1876)

***Ectatomma cristatum*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [91]. Type data: syntypes, NHMW W, from Gayndah, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Rhytidoponera croesus*** Emery, 1901

***Rhytidoponera croesus*** Emery, C. (1901). Notes sur les sous-familles des Dorylines et Ponérines (famille des Formicides). *Ann. Soc. Entomol. Belg.* **45**: 32–54 [50]. Type data: syntypes, MCG W, ANIC W, from N.S.W.

***Rhytidoponera (Chalcoponera) fastuosa*** Santschi, F. (1916). Deux nouvelles fourmis d'Australie. *Bull. Soc. Entomol. Fr.* **1916**: 174–175 [174]. Type data: syntypes, BNHM W,F,M, from Australia.

***Chalcoponera victoriae andrei*** Wheeler, W.M. & Chapman, J.W. (1925). The ants of the Philippine Islands. *Philipp. J. Sci.* **28**: 47–73 pls 1–2 [21 Sept. 1925] [59]. Type data: syntypes, MCZ \*W, from Dorriggo, N.S.W., see Brown, W.L. jr. (1954). Systematic and other notes on some of the smaller species of the ant genus *Rhytidoponera* Mayr. *Breviora* **33**: 1–11.

Synonymy that of Brown, W.L. jr. (1954). Systematic and other notes on some of the smaller species of the ant genus *Rhytidoponera* Mayr. *Breviora* **33**: 1–11 [10].

Distribution: NE coastal, SE coastal, Qld., N.S.W., Vic. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Rhytidoponera douglasi*** Brown, 1952

***Rhytidoponera punctata levior*** Crawley, W.C. (1925). New ants from Australia. II. *Ann. Mag. Nat. Hist.* (9) **16**: 577–598 [581] [*non Rhytidoponera mayri glabrior* laevior Stitz, 1911]. Type data: syntypes (probable), OUM \*W, from Rottnest Is., W.A.

***Rhytidoponera douglasi*** Brown, W.L. jr. (1952). Notes on two well-known Australian ant species. *West. Aust. Nat.* 3: 137–138 [15 Sept. 1952] [137] [*nom. nov.* for *Rhytidoponera punctata levior* Crawley, 1925].

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, open forest; nest in soil.

***Rhytidoponera dubia*** Crawley, 1915

***Rhytidoponera (ChalcoPONera) dubia*** Crawley, W.C. (1915). Ants from north and central Australia, collected by G.F. Hill. Part I. *Ann. Mag. Nat. Hist.* (8) 15: 130–136 [132]. Type data: holotype, BMNH \*W, from Stapleton, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera enigmatica*** Ward, 1980

***Rhytidoponera enigmatica*** Ward, P.S. (1980). A systematic revision of the *Rhytidoponera impressa* group (Hymenoptera : Formicidae) in Australia and New Guinea. *Aust. J. Zool.* 28: 475–498 [26 Aug. 1980] [484]. Type data: holotype, ANIC W, from Stringy Bark Creek, Lane Cove West, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer. Biological references: Ward, P.S. (1980). Genetic variation and population differentiation in the *Rhytidoponera impressa* group, a species complex of ponerine ants (Hymenoptera : Formicidae). *Evolution* 34: 1060–1076 (genetic variation).

***Rhytidoponera eremita*** Clark, 1936

***Rhytidoponera eremita*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* 9: 14–89 pls 3–6 [78]. Type data: syntypes, NMV \*W, from Tennant Creek, Powell's Creek and Newcastle Waters, N.T.

Distribution: N Gulf, N coastal, W plateau, N.T. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera ferruginea*** Clark, 1936

***Rhytidoponera ferruginea*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* 9: 14–89 pls 3–6 [48]. Type data: syntypes, NMV \*W, from Longreach, Qld.

Distribution: Lake Eyre basin, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera flavicornis*** Clark, 1936

***Rhytidoponera flavicornis*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* 9: 14–89 pls 3–6 [64]. Type data: syntypes, WAM \*W, from Mundi Windi, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera flavipes*** (Clark, 1941)

***ChalcoPONera flavipes*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* 12: 71–94 [84 pl 13]. Type data: syntypes, NMV \*W, from Ooldea, S.A.

Distribution: W plateau, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera flindersi*** Clark, 1936

***Rhytidoponera flindersi*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* 9: 14–89 pls 3–6 [60]. Type data: syntypes (probable), NMV \*W, from Flinders Is., S.A.

Distribution: W plateau, W.A., S.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in ground layer.

***Rhytidoponera foreli*** Crawley, 1918

***Rhytidoponera foreli*** Crawley, W.C. (1918). Some new Australian ants. *Entomol. Rec. J. Var.* 30: 86–92 [87]. Type data: syntypes (probable), possibly OUM, from Koolpinyah, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Rhytidoponera foveolata*** Crawley, 1925

***Rhytidoponera foveolata*** Crawley, W.C. (1925). New ants from Australia. II. *Ann. Mag. Nat. Hist.* (9) 16: 577–598 [581]. Type data: syntypes (probable), OUM \*W, from Perth, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Rhytidoponera fuliginosa*** Clark, 1936

***Rhytidoponera fuliginosa*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* 9: 14–89 pls 3–6 [79]. Type data: syntypes, NMV \*W, from Birdum and Johnston's Lagoon, N.T.

Distribution: N Gulf, N.T. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera greavesi*** Clark, 1941

***Rhytidoponera greavesi*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* 12: 71–94 [81 pl 13]. Type data: syntypes, NMV \*W, from Julia Creek, Qld.

Distribution: N Gulf, Qld., N.T. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera gregoryi* Clark, 1936**

***Rhytidoponera gregoryi*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* **9**: 14–89 pls 3–6 [47]. Type data: syntypes, NMV \*W, from Lake Killalpaninna, S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in ground layer.

***Rhytidoponera haeckeli* (Forel, 1910)**

***Ectatomma (Rhytidoponera) haeckeli*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [15]. Type data: syntypes, GMNH W, ANIC W, from Cape York, Qld.

Distribution: N Gulf, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera hilli* Crawley, 1915**

***Rhytidoponera hilli*** Crawley, W.C. (1915). Ants from north and central Australia, collected by G.F. Hill. Part I. *Ann. Mag. Nat. Hist.* (8) **15**: 130–136 [131]. Type data: syntypes, BMNH \*W, from Stapleton, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera impressa* (Mayr, 1876)**

***Ectatomma impressum*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [92]. Type data: syntypes, NHMW W,F, from Gayndah, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer. Biological references: Ward, P.S. (1980). Genetic variation and population differentiation in the *Rhytidoponera impressa* group, a species complex of ponerine ants (Hymenoptera : Formicidae). *Evolution* **34**: 1060–1076 (genetic variation).

***Rhytidoponera incisa* Crawley, 1915**

***Rhytidoponera incisa*** Crawley, W.C. (1915). Ants from north and central Australia, collected by G.F. Hill. Part I. *Ann. Mag. Nat. Hist.* (8) **15**: 130–136 [132]. Type data: syntypes, BMNH \*W, from Alice Springs, N.T.

Distribution: Lake Eyre basin, N.T. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in ground layer.

***Rhytidoponera inornata* Crawley, 1922**

***Rhytidoponera (Chalcoponera) metallica inornata*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **9**: 427–448 [436]. Type data: syntypes, OUM \*W, from Perth, W.A.

***Chalcoponera metallica carbonaria*** Wheeler, W.M. (1934). Contributions to the fauna of Rottnest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* **20**: 137–163 [5 Oct. 1934] [139]. Type data: syntypes, MCZ \*W, from White Hill, Tourists' Camp Reserve and west end of Rottnest Is., W.A.

Synonymy that of Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [203].

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Rhytidoponera kurandensis* Brown, 1958**

***Rhytidoponera kurandensis*** Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [267]. Type data: holotype, MCZ \*W, from Kuranda near Cairns, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Rhytidoponera lamellinodis* Santschi, 1919**

***Rhytidoponera (Chalcoponera) lamellinodis*** Santschi, F. (1919). Cinq notes myrmécologiques. *Bull. Soc. Vaud. Sci. Nat.* **52**: 325–350 [327]. Type data: syntypes, BNHM W, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Rhytidoponera laticeps* Forel, 1915**

***Rhytidoponera laticeps*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [12]. Type data: syntypes, GMNH W,M, other syntypes may exist, from Mt. Bellenden Ker, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Rhytidoponera maledicta* Forel, 1915**

***Rhytidoponera (Chalcoponera) victoriorae maledicta*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [15]. Type data: syntypes, GMNH W,M,F, other syntypes may exist, from Malanda and Cedar Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer. Biological references: Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 (raised to species).



***Rhytidoponera maniae*** (Forel, 1900)

***Ectatomma (Rhytidoponera) maniae*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [57]. Type data: syntypes, GMNH W, from Adelaide, S.A.

***Ectatomma (Rhytidoponera) convexum spatiatum*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [58]. Type data: syntypes, GMNH W, ANIC W, from S.A.

Synonymy that of Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [203].

Distribution: S Gulfs, Murray-Darling basin, N.S.W., Vic., S.A. Ecology: terrestrial, nocturnal, predator, desert, woodland, open forest; nest in ground layer.

***Rhytidoponera mayri*** (Emery, 1883)

***Ectatomma mayri*** Emery, C. (1883). Alcune formiche della Nuova Caledonia. *Boll. Soc. Entomol. Ital.* **15**: 145–151 [150]. Type data: syntypes, MCG \*W, from eastern Australia.

***Ectatomma (Rhytidoponera) mayri glabius*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [268]. Type data: syntypes, GMNH W, from Day Dawn and Yalgoo, W.A.

***Rhytidoponera quadriceps*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* **9**: 14–89 pls 3–6 [30]. Type data: syntypes, NMV \*W, from Tennant Creek, N.T.

***Rhytidoponera stridulator*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* **9**: 14–89 pls 3–6 [37]. Type data: syntypes missing, originally lodged in ANIC, from 20 mi N of Bourke, N.S.W.

***Rhytidoponera occidentalis*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* **9**: 14–89 pls 3–6 [39]. Type data: syntypes, WAM \*W, from Wadgingarra, N of Yalgoo, W.A.

***Rhytidoponera petiolata*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* **9**: 14–89 pls 3–6 [41]. Type data: syntypes, NMV \*W, from Lake Killalpaninna, S.A.

***Rhytidoponera dixonii*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* **9**: 14–89 pls 3–6 [46]. Type data: syntypes, NMV \*W,M, from Lake Hattah, Wyperfeld Natl. Park and Pomonal, Vic.

Synonymy that of Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [203].

Distribution: Murray-Darling basin, Lake Eyre basin, W plateau, NW coastal, N.S.W., Vic., S.A., W.A., N.T. Ecology: terrestrial, nocturnal, predator, desert, woodland, open forest; nest in ground layer.

***Rhytidoponera metallica*** (F. Smith, 1858)

***Ponera metallica*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [94]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: lectotype, BMNH \*W,F, from Adelaide, S.A., designation by Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [275].

***Rhytidoponera (Chalcoponera) metallica purpurascens*** Wheeler, W.M. (1915). Hymenoptera. *Trans. R. Soc. S. Aust.* **39**: 805–823 pls 64–66 [Dec. 1915] [805]. Type data: holotype, MCZ \*W, from Moorilyanna, S.A.

***Rhytidoponera (Chalcoponera) metallica varians*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **9**: 427–448 [436]. Type data: syntypes, OUM \*W, from Darlington, W.A.

***Rhytidoponera (Chalcoponera) caecilae*** Viehmeyer, H. (1924). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **13**: 219–229 [227]. Type data: syntypes, ZMB \*W,F, from Kilolpanino (= Killalpaninna), S.A.

***Chalcoponera pulchra*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* **12**: 71–94 [86 pl 13]. Type data: syntypes, NMV \*W, from Forrest, W.A.

Synonymy that of Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [204].

Distribution: S Gulfs, Lake Eyre basin, W plateau, NW coastal, SW coastal, Bulloo River basin, Murray-Darling basin, NE coastal, SE coastal, Tas., N.S.W., Vic., A.C.T., Qld., N.T., S.A., W.A. Ecology: terrestrial, nocturnal, predator, desert, woodland, open forest; nest in ground layer. Biological references: Crozier, R.H. (1969). Chromosome number polymorphism in an Australian ponerine ant. *Can. J. Genet. Cytol.* **11**: 333–339 (genetics).

***Rhytidoponera micans*** Clark, 1936

***Rhytidoponera micans*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* **9**: 14–89 pls 3–6 [62]. Type data: syntypes, NMV \*W,M, from Eradu and Mullewa, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, nocturnal, predator, woodland; nest in ground layer.

***Rhytidoponera mirabilis* Clark, 1936**

***Rhytidoponera mirabilis*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* 9: 14–89 pls 3–6 [29]. Type data: syntypes, NMV \*W, from Alice Springs, N.T.

Distribution: Lake Eyre basin, N.T. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in ground layer.

***Rhytidoponera nitida* Clark, 1936**

***Rhytidoponera nitida*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* 9: 14–89 pls 3–6 [45]. Type data: syntypes, NMV \*W, from Bourke, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in ground layer.

***Rhytidoponera nodifera* (Emery, 1895)**

***Ectatomma (Rhytidoponera) convexum nodiferum*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* 39: 345–358 [348]. Type data: syntypes, MCG W, from Laidily (=Laidley) and Kamerunga, Qld.

***Ectatomma (Rhytidoponera) rothneyi*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* 44: 54–77 [56]. Type data: syntypes, GMNH W, from Brisbane, Qld.

***Rhytidoponera rothneyi mediana*** Viehmeyer, H. (1924). Formiciden der australischen Faunenregion. *Entomol. Mitt.* 13: 219–229 [224]. Type data: syntypes, ZMB \*W,M, from Trial Bay, N.S.W.

***Rhytidoponera pronotalis*** Crawley, W.C. (1925). New ants from Australia. II. *Ann. Mag. Nat. Hist.* (9) 16: 577–598 [588]. Type data: syntypes, OUM \*W, from Lismore, N.S.W.

Synonymy that of Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* 9: 14–89 pls 3–6 [68].

Distribution: NE coastal, SE coastal, N.S.W., Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Rhytidoponera nudata* (Mayr, 1876)**

***Ectatomma nudatum*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [91]. Type data: holotype, NHMW W, from Gayndah, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera peninsularis* Brown, 1958**

***Rhytidoponera peninsularis*** Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp.*

*Zool.* 118: 173–362 [280]. Type data: holotype, MCZ \*W, from Rocky Scrub in the McIlwraith Range, NE of Coen, Cape York Peninsula, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Rhytidoponera pilosula* Clark, 1936**

***Rhytidoponera pilosula*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* 9: 14–89 pls 3–6 [80]. Type data: syntypes, NMV \*W, from Bourke, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera punctata* (F. Smith, 1858)**

***Ectatomma punctata*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London: British Museum 216 pp. 14 pls [27 Mar. 1858] [104]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*W, from Port Lincoln, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera punctigera* Crawley, 1925**

***Rhytidoponera punctigera*** Crawley, W.C. (1925). New ants from Australia. II. *Ann. Mag. Nat. Hist.* (9) 16: 577–598 [582]. Type data: syntypes (probable), OUM \*W, from Manjimup, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera punctiventris* (Forel, 1900)**

***Ectatomma (Rhytidoponera) cristatum punctiventris*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* 44: 54–77 [56]. Type data: syntypes (probable), GMNH W, from Sydney, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer. Biological references: Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* 118: 173–362 (raised to species).

***Rhytidoponera purpurea* (Emery, 1887)**

***Ectatomma impressum purpureum*** Emery, C. (1887). *Catalogo delle formiche esistenti nelle collezioni del*

Museo Civico di Genova. Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* (2) 5: 427–473 pls 1–2 [444]. Type data: syntypes, MCG W,F, from Hatam, New Guinea.

***Ectatomma (Rhytidoponera) impressum splendidum*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* 18: 1–94 [12]. Type data: syntypes, GMNH W, from Kuranda and Cairns, Qld.

Synonymy that of Brown, W.L. jr. (1954). Systematic and other notes on some of the smaller species of the ant genus *Rhytidoponera* Mayr. *Breviora* 33: 1–11 [7].

Distribution: NE coastal, Qld.; also in New Guinea. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer. Biological references: Ward, P.S. (1980). Genetic variation and population differentiation in the *Rhytidoponera impressa* group, a species complex of ponerine ants (Hymenoptera : Formicidae). *Evolution* 34: 1060–1076 (genetic variation).

***Rhytidoponera reflexa*** Clark, 1936

***Rhytidoponera reflexa*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* 9: 14–89 pls 3–6 [76]. Type data: syntypes, NMV \*W, from Koolpinyah and Bathurst Is., N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera reticulata*** (Forel, 1893)

***Ectatomma (Rhytidoponera) reticulatum*** Forel, A. (1893). Nouvelles fourmis d'Australie et des Canaries. *Ann. Soc. Entomol. Belg.* 37: 454–466 [459]. Type data: syntypes, GMNH W,F, from Port Darwin, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera rufescens*** (Forel, 1900)

***Ectatomma (Rhytidoponera) convexum rufescens*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* 44: 54–77 [58]. Type data: syntypes, GMNH W, from Charter (=Charters) Towers and Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer. Biological references: Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* 118: 173–362 (raised to species).

***Rhytidoponera rufithorax*** Clark, 1941

***Rhytidoponera rufithorax*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* 12: 71–94 [82 pl 13]. Type data: syntypes, NMV \*W, from Alexandria Station, N.T.

Distribution: N Gulf, N.T. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Rhytidoponera rufiventris*** Forel, 1915

***Rhytidoponera convexa rufiventris*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [11]. Type data: syntypes, GMNH W,M, ANIC W, other syntypes may exist, from Herberton, Atherton, Evelyne, Malanda and Cedar Creek, Qld.

***Rhytidoponera castanea*** Crawley, W.C. (1925). New ants from Australia. II. *Ann. Mag. Nat. Hist.* (9) 16: 577–598 [589]. Type data: syntypes, OUM \*W, from Derby, N.S.W.

Synonymy that of Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* 9: 14–89 pls 3–6 [83].

Distribution: N coastal, N gulf, NE coastal, W.A., N.T., Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Rhytidoponera rufonigra*** Clark, 1936

***Rhytidoponera rufonigra*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* 9: 14–89 pls 3–6 [58]. Type data: syntypes, NMV \*W,M, from Perth, Mundaring and Armadale, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Rhytidoponera scaberrima*** (Emery, 1895)

***Ectatomma (Rhytidoponera) scaberrimum*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* 39: 345–358 [347]. Type data: holotype, MCG W, from Mt. Bellenden Ker, Qld.

***Rhytidoponera laciniosa malandensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [10]. Type data: syntypes, GMNH W,M, ANIC W, other syntypes may exist, from Malanda, Qld.

Synonymy that of Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* 118: 173–362 [204].

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.



***Rhytidoponera scabra* (Mayr, 1876)**

***Ectatomma scabrum*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [90]. Type data: syntypes, NHMW W,M, from Port Mackay, Rockhampton and Peak Downs, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in ground layer.

***Rhytidoponera scabrior* Crawley, 1925**

***Rhytidoponera (ChalcoPONera) aspera scabrior*** Crawley, W.C. (1925). New ants from Australia. II. *Ann. Mag. Nat. Hist.* (9) **16**: 577–598 [590]. Type data: syntypes, OUM \*W, from Lismore, N.S.W.

Distribution: NE coastal, SE coastal, Qld., N.S.W. Ecology: terrestrial, nocturnal, predator, open forest, closed forest; nest in ground layer. Biological references: Ward, P.S. (1980). A systematic revision of the *Rhytidoponera impressa* group (Hymenoptera : Formicidae) in Australia and New Guinea. *Aust. J. Zool.* **28**: 475–498 (raised to species).

***Rhytidoponera socrus* (Forel, 1894)**

***Ectatomma (Rhytidoponera) socrus*** Forel, A. (1894). Quelques fourmis de Madagascar (récoltées par M. le Dr. Völztkow); de Nouvelle Zélande (récoltées par M. W.W. Smith); de Nouvelle Calédonie (récoltées par M. Sommer); de Queensland (Australie) récoltées par M. Wiederkehr; et de Perth (Australie occidentale) récoltées par M. Chase. *Ann. Soc. Entomol. Belg.* **38**: 226–237 [236]. Type data: syntypes, GMNH W, ANIC W, from Charters Towers, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, desert, woodland; nest in soil.

***Rhytidoponera spoliata* (Emery, 1895)**

***Ectatomma (Rhytidoponera) spoliatum*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [348]. Type data: syntypes, MCG W, ANIC W, from Mt. Bellenden Ker, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

***Rhytidoponera tasmaniensis* Emery, 1898**

***Rhytidoponera metallica tasmaniensis*** Emery, C. (1898). Descrizioni di formiche nuove Malesi e Australiane. Note sinonimiche. *Rec. Sess. Accad. Sci. Ist. Bologna (ns)* **2**: 231–245 [232]. Type data: syntypes, MCG W, ANIC W, from Tas.

***Ectatomma (Rhytidoponera) metallicum cristulatum*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase,

Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [59]. Type data: syntypes, GMNH W, ANIC W, from Australia.

Synonymy that of Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [205].

Distribution: S Gulfs, Murray-Darling basin, SE coastal, N.S.W., Vic., Tas. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in ground layer.

***Rhytidoponera taurus* (Forel, 1910)**

***Ectatomma (Rhytidoponera) cornutum taurus*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [12]. Type data: syntypes, GMNH W, ANIC W, from Tennant Creek, N.T.

***Rhytidoponera cornuta fusciventris*** Stitz, H. (1911). Australische Ameisen (Neu-Guinea und Salomons-Inseln, Festland, Neu-Seeland). *Sber. Ges. Naturf. Freunde Berl.* **1911**: 351–381 [352]. Type data: syntypes, ZMB \*W, from Adelaide, S.A.

***Rhytidoponera cerastes brevior*** Crawley, W.C. (1925). New ants from Australia. II. *Ann. Mag. Nat. Hist.* (9) **16**: 577–598 [586]. Type data: syntypes, OUM \*W,M, from Derby, W.A.

Synonymy that of Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* **9**: 14–89 pls 3–6 [25].

Distribution: S Gulfs, W plateau, N coastal, N Gulf, Lake Eyre basin, S.A., W.A., N.T. Ecology: terrestrial, nocturnal, predator, desert, woodland, open forest; nest in soil.

***Rhytidoponera tenuis* (Forel, 1900)**

***Ectatomma (Rhytidoponera) tenue*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [58]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in ground layer.

***Rhytidoponera trachypyx* Brown, 1958**

***Rhytidoponera trachypyx*** Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [281]. Type data: holotype, MCZ \*W, from river bank at Katherine, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, nocturnal, predator, woodland; nest in ground layer.

***Rhytidoponera turneri* (Forel, 1910)**

***Ectatomma (Rhytidoponera) turneri*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [14]. Type data: syntypes, GMNH W, from Cape York, Qld.

Distribution: N Gulf, Qld. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in ground layer.

***Rhytidoponera tyloxys* Brown and Douglas, 1958**

***Rhytidoponera tyloxys*** Brown, W.L. & Douglas, A.M. (1958). in Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [282]. Type data: holotype, WAM 64–37 \*W, from Woodstock Station, 900 mi N of Perth, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, nocturnal, predator, desert, woodland; nest in ground layer.

***Rhytidoponera victoriae* (E. André, 1896)**

***Ectatomma (Rhytidoponera) victoriae*** André, E. (1896). Fourmis nouvelles d'Asie et d'Australie. *Rev. Entomol.* **15**: 251–265 [261]. Type data: syntypes, MNHP W, ANIC W, from Victorian Alps.

***Ectatomma (Rhytidoponera) metallicum modestum*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [348]. Type data: syntypes, MCG W, from Kamerunga, Qld.

***Ectatomma (Rhytidoponera) metallicum scrobiculatum*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [59]. Type data: syntypes, GMNH W,M,F, ANIC W, from Richmond, N.S.W.

***Rhytidoponera (Chalcoponera) victoriae cedarensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [15]. Type data: syntypes, GMNH (probable) \*W,M, from Cedar Creek, Qld.

Synonymy that of Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [205].

Distribution: NE coastal, SE coastal, Murray-Darling basin, Qld., N.S.W., Vic. Ecology: terrestrial, nocturnal, predator, woodland, open forest, closed forest; nest in ground layer.

***Rhytidoponera violacea* (Forel, 1907)**

***Ectatomma (Rhytidoponera) convexum violaceum*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [269]. Type data: syntypes, GMNH W, ANIC W, from Northampton, Eradu, Wooroloo, Lion Mill, Mundaring Weir, South Perth, Subiaco, Jarrahdale and York, W.A.

***Ectatomma (Rhytidoponera) convexum gemma*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [269]. Type data: syntypes, GMNH W, ANIC W, from Yarloop, Gooseberry Hill and York, W.A.

***Rhytidoponera convexa opacior*** Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* **9**: 14–89 pls 3–6 [86] [introduced as a quadranomen by Crawley, 1925]. Type data: syntypes, OUM W, from Jigalong, W.A.

Synonymy that of Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* **9**: 14–89 pls 3–6 [87]; Brown, W.L. jr. (1958). Contributions toward a reclassification of the Formicidae. II. Tribe Ectatommini (Hymenoptera). *Bull. Mus. Comp. Zool.* **118**: 173–362 [205].

Distribution: SW coastal, NW coastal, W plateau, W.A. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in soil.

***Rhytidoponera viridis* (Clark, 1941)**

***Chalcoponera viridis*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* **12**: 71–94 [83 pl 13]. Type data: syntypes, NMV \*W, from Kalamurina, Lake Eyre, S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, nocturnal, predator, desert, woodland; nest in soil.

***Rhytidoponera yorkensis* Forel, 1915**

***Rhytidoponera cristata yorkensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [12]. Type data: syntypes, GMNH W, other syntypes may exist, from Cape York, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in ground layer. Biological references: Clark, J. (1936). A revision of Australian species of *Rhytidoponera* Mayr (Formicidae). *Mem. Natl. Mus. Vict.* **9**: 14–89 pls 3–6 (raised to species).

***Sphinctomyrmex* Mayr, 1866**

***Sphinctomyrmex*** Mayr, G.L. (1866). Diagnosen neuer und wenig gekannter Formiciden. *Verh. Zool.-Bot. Ges. Wien* **16**: Abhand. 885–908 [895 pl 20]. Type species *Sphinctomyrmex stali* Mayr, 1866 by monotypy.

***Nothosphinctus*** Wheeler, W.M. (1918). The Australian ants of the ponerine tribe Cerapachyini. *Proc. Am. Acad. Arts Sci.* **53**: 215–265 [219] [proposed with subgeneric rank in *Eusphinctus* Emery, 1893]. Type species *Sphinctomyrmex froggatti* Forel, 1900 by subsequent designation, see Donisthorpe, H. (1943). A list of the type-species of the genera and subgenera of the Formicidae. *Ann. Mag. Nat. Hist. (11)* **10**: 649–688.

***Zasphinctus*** Wheeler, W.M. (1918). The Australian ants of the ponerine tribe Cerapachyini. *Proc. Am. Acad. Arts Sci.* **53**: 215–265 [219] [proposed with subgeneric rank in

*Eusphinctus* Emery, 1893]. Type species *Sphinctomyrmex turneri* Forel, 1900 by monotypy.

Synonymy that of Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythyreini, Cerapachyini, Cyldromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* 5: 1–116 [31].

This group is also found in the south Neotropical, north Ethiopian and Oriental regions; New Guinea, east Melanesia and New Caledonia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Sphinctomyrmex asper*** Brown, 1975

***Sphinctomyrmex asper*** Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythyreini, Cerapachyini, Cyldromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* 5: 1–116 [78]. Type data: holotype, MCZ W, from Halifax, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in soil.

***Sphinctomyrmex cedaris*** Forel, 1915

***Sphinctomyrmex (Eusphinctus) fallax cedaris*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [16]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Cedar Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in soil. Biological references: Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythyreini, Cerapachyini, Cyldromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* 5: 1–116 (raised to species).

***Sphinctomyrmex clarus*** (Forel, 1893)

***Cerapachys emeryi clarus*** Forel, A. (1893). Nouvelles fourmis d'Australie et des Canaries. *Ann. Soc. Entomol. Belg.* 37: 454–466 [462]. Type data: syntypes, GMNH W, from Adelaide River, N.T.

Distribution: N coastal, N.T., W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil. Biological references: Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythyreini, Cerapachyini,

Cylindromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* 5: 1–116 (raised to species).

***Sphinctomyrmex duchossoyi*** (E. André, 1905)

***Eusphinctus duchossoyi*** André, E. (1905). Description d'un genre nouveau et de deux espèces nouvelles de fourmis d'Australie. *Rev. Entomol.* 24: 205–208 [205]. Type data: syntypes, MNHP \*W,F, from Sydney, N.S.W.

***Eusphinctus (Eusphinctus) hackeri*** Wheeler, W.M. (1918). The Australian ants of the ponerine tribe Cerapachyini. *Proc. Am. Acad. Arts Sci.* 53: 213–265 [229]. Type data: syntypes, MCZ \*W,F, from Bribie Is. near Brisbane, Qld.

Synonymy that of Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythyreini, Cerapachyini, Cyldromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* 5: 1–116 [33].

Distribution: NE coastal, SE coastal, Qld., N.S.W., Vic. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Sphinctomyrmex froggatti*** Forel, 1900

***Sphinctomyrmex froggatti*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* 44: 54–77 [71]. Type data: syntypes, GMNH W, ANIC W, from N.S.W.

Distribution: Murray-Darling basin, SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in soil.

***Sphinctomyrmex imbecilis*** Forel, 1907

***Sphinctomyrmex froggatti imbecilis*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [272]. Type data: syntypes, GMNH W, ANIC W, from Lion Mill, W.A.

***Eusphinctus (Nothosphinctus) manni*** Wheeler, W.M. (1918). The Australian ants of the ponerine tribe Cerapachyini. *Proc. Am. Acad. Arts Sci.* 53: 213–265 [236]. Type data: syntypes, MCZ \*W,F, from Leura in the Blue Mts., N.S.W.

***Eusphinctus (Nothosphinctus) fulvidus*** Clark, J. (1923). Australian Formicidae. *J. R. Soc. West. Aust.* 9: 72–89 [75]. Type data: syntypes, NMV \*W,F, from Mundaring, W.A.

***Eusphinctus (Nothosphinctus) silaceus*** Clark, J. (1923). Australian Formicidae. *J. R. Soc. West. Aust.* 9: 72–89 [77]. Type data: syntypes, NMV \*W, from Armadale, W.A.

***Eusphinctus (Nothosphinctus) brunnicornis*** Clark, J. (1930). New Formicidae, with notes on some little-known species. *Proc. R. Soc. Vict.* 43: 2–25 [30 Aug. 1930] [2]. Type data: syntypes, NMV \*W, from Collie, W.A.

Synonymy that of Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae,



tribes Platythyreini, Cerapachyini, Cyldromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* 5: 1-116 [33].

Distribution: SE coastal, SW coastal, S Gulfs, S.A., Vic., N.S.W., W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in soil.

***Sphinctomyrmex mjobergi* Forel, 1915**

***Sphinctomyrmex clarus mjobergi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910-1913. 2. Ameisen. *Ark. Zool.* 9: 1-119 pls 1-3 [4 Dec. 1915] [16]. Type data: syntypes, GMNH W, other syntypes may exist, from Mt. Tambourine (=Tamborine Mt.), Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in soil. Biological references: Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythyreini, Cerapachyini, Cyldromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* 5: 1-116 (raised to species).

***Sphinctomyrmex myops* Forel, 1895**

***Sphinctomyrmex emeryi myops*** Forel, A. (1895). Nouvelles fourmis d'Australie, récoltée à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* 39: 417-428 [421]. Type data: syntypes, GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil. Biological references: Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythyreini, Cerapachyini, Cyldromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* 5: 1-116 (raised to species).

***Sphinctomyrmex nigricans* (Clark, 1926)**

***Eusphinctus (Nothosphinctus) nigricans*** Clark, J. (1926). Australian Formicidae. *J. R. Soc. West. Aust.* 12: 43-51 pl 6 [25 Jan. 1926] [44]. Type data: syntypes, NMV \*W, from Lismore, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Sphinctomyrmex occidentalis* (Clark, 1923)**

***Eusphinctus (Eusphinctus) occidentalis*** Clark, J. (1923). Australian Formicidae. *J. R. Soc. West. Aust.* 9: 72-89 [74]. Type data: syntypes, NMV \*W,F, from Mundaring, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Sphinctomyrmex perstictus* Brown, 1975**

***Cerapachys emeryi*** Forel, A. (1893). Nouvelles fourmis d'Australie et des Canaries. *Ann. Soc. Entomol. Belg.* 37: 454-466 [461] [*non Cerapachys (Simopone) emeryi* Forel, 1892 = *Simopone emeryi* (Forel, 1892)]. Type data: syntypes, GMNH W, from Baudin Is., W.A.

***Sphinctomyrmex perstictus*** Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythyreini, Cerapachyini, Cyldromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* 5: 1-116 [33] [*nom. nov. for Cerapachys emeryi* Forel, 1893].

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Sphinctomyrmex septentrionalis* (Crawley, 1925)**

***Eusphinctus (Nothosphinctus) septentrionalis*** Crawley, W.C. (1925). New ants from Australia. II. *Ann. Mag. Nat. Hist.* (9) 16: 577-598 [577]. Type data: syntypes, OUM \*W, BMNH \*W, from Darwin, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Sphinctomyrmex steinheili* Forel, 1900**

***Sphinctomyrmex (Eusphinctus) steinheili*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* 44: 54-77 [72]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

***Sphinctomyrmex (Eusphinctus) fallax*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* 44: 54-77 [73]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

***Sphinctomyrmex (Eusphinctus) fallax hedwigae*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* 18: 1-94 [22]. Type data: syntypes, GMNH W, ANIC W, from N.S.W.

***Eusphinctus hirsutus*** Clark, J. (1929). Results of a collecting trip to the Cann River, East Gippsland. *Vict. Nat.* 46: 115-123 [4 Oct. 1929] [118]. Type data: syntypes, NMV \*W,F, from Cann River, Vic.

***Eusphinctus fulvipes*** Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* 8: 48-73 [49 pl 4]. Type data: syntypes, NMV \*W,F, from Gellibrand, Vic.

Synonymy that of Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platythyreini, Cerapachyini, Cyldromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* 5: 1-116 [33].

Distribution: NE coastal, SE coastal, Murray-Darling basin, Qld., N.S.W., Vic. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in soil.

***Sphinctomyrmex trux* Brown, 1975**

***Sphinctomyrmex trux*** Brown, W.L. jr. (1975). Contributions toward a reclassification of the Formicidae. V. Ponerinae, tribes Platytithyreiini, Cerapachyini, Cyliandromyrmecini, Acanthostichini, and Aenictogitini. *Search Agric.* **5**: 1–116 [77]. Type data: holotype, MCZ \*W, from near Ravenshoe, on the Atherton Tableland, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, open forest, closed forest; nest in ground layer.

***Sphinctomyrmex turneri* Forel, 1900**

***Sphinctomyrmex turneri*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [70]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

***Trachymesopus* Emery, 1911**

***Trachymesopus*** Emery, C. (1911). Hymenoptera Fam. Formicidae subfam. Ponerinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 118 Brussels 125 pp. 3 pls [84] [proposed with subgeneric rank in *Euponera* Forel, 1891; raised to genus in Wilson, E.O. (1958). Studies on the ant fauna of Melanesia III. *Rhytidoponera* in Western Melanesia and the Moluccas. IV. The tribe Ponerini. *Bull. Mus. Comp. Zool.* **119**: 301–371]. Type species *Formica stigma* Fabricius, 1804 by original designation.

This group is also found in the Neotropical, south Nearctic, Ethiopian and Oriental regions; New Guinea, eastern Melanesia and parts of Polynesia in the Australian Region.

***Trachymesopus clarki* (Wheeler, 1934)**

***Euponera (Trachymesopus) clarki*** Wheeler, W.M. (1934). Contributions to the fauna of Rottneest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* **20**: 137–163 [5 Oct. 1934] [140]. Type data: syntypes, MCZ \*W,F, from Serpentine Lake, Rottneest Is. and Margaret River, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, predator, open forest, closed forest; nest in ground layer.

***Trachymesopus darwinii* (Forel, 1893)**

***Belonopelta darwinii*** Forel, A. (1893). Nouvelles fourmis d'Australie et des Canaries. *Ann. Soc. Entomol. Belg.* **37**: 454–466 [460]. Type data: holotype (probable), GMNH F, from Port Darwin, N.T.

Distribution: N coastal, N Gulf, NE coastal, Qld., N.T. Ecology: terrestrial, nocturnal, predator, open forest, closed forest; nest in ground layer.

***Trachymesopus pachynoda* (Clark, 1930)**

***Euponera (Trachymesopus) pachynoda*** Clark, J. (1930). New Formicidae, with notes on some little-known species. *Proc. R. Soc. Vict.* **43**: 2–25 [30 Aug. 1930] [7]. Type data: syntypes (probable), NMV \*W, from Ferntree Gully, Vic.

Distribution: SE coastal, N.S.W., Vic. Ecology: terrestrial, nocturnal, predator, open forest, closed forest; nest in ground layer.

***Trachymesopus rufonigra* (Clark, 1934)**

***Euponera (Brachyponera) rufonigra*** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [30 pls 2–3]. Type data: syntypes, NMV \*W,F, from Perth, Armadale, Mundaring, Busselton and Albany, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, predator, open forest, closed forest; nest in ground layer.

**DORYLINAE*****Aenictus* Shuckard, 1840**

***Aenictus*** Shuckard, W.E. (1840). Monograph of the Dorylidae, a family of the Hymenoptera Heterogyna. *Ann. Mag. Nat. Hist. (1)* **5**: 258–271 [266]. Type species *Aenictus ambiguus* Shuckard, 1840 by original designation.

This group is also found in the south Palearctic, Ethiopian and Oriental regions; New Guinea and east Melanesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Aenictus aratus* Forel, 1900**

***Aenictus aratus*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner, Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [74]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, nomadic, predator, open forest, closed forest; nest in ground layer, army ant.

***Aenictus ceylonicus* (Mayr, 1866)**

***Typhlatta ceylonica*** Mayr, G.L. (1866). Myrmecologische Beiträge. *Sber. Akad. Wiss. Wien* **53** Abt. 1: 484–517 [505]. Type data: syntypes, NHMW \*W, from Sri Lanka (as Ceylon).

***Aenictus turneri*** Forel, A. (1900). Ponerinae et Dorylinae d'Australie récoltées par MM. Turner,

Froggatt, Nugent, Chase, Rothney, J.J. Walker, etc. *Ann. Soc. Entomol. Belg.* **44**: 54–77 [75]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

*Aenictus deuqueti* Crawley, W.C. (1923). Myrmecological notes - new Australian Formicidae. *Entomol. Rec. J. Var.* **35**: 177–179 [177]. Type data: syntypes, OUM \*W, from Lismore, N.S.W.

*Aenictus exiguus* Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [21 pls 2–3]. Type data: syntypes (probable), SAMA \*W, from Cairns district, Qld.

Synonymy that of Brown, W.L. jr. (1952). New synonymy in the army ant genus *Aenictus* Shuckard. *Psyche Camb.* **58**: 123; Wilson, E.O. (1964). The true army ants of the Indo-Australian area (Hymenoptera : Formicidae : Dorylinae). *Pac. Insects Monogr.* **6**: 427–483 [452].

Distribution: NE coastal, Murray-Darling basin, Qld., N.S.W. Ecology: terrestrial, noctidiurnal, nomadic, predator, open heath, woodland, open forest, closed forest; nest in ground layer, army ant.

*Aenictus hilli* Clark, 1928

*Aenictus hilli* Clark, J. (1928). Australian Formicidae. *J. R. Soc. West. Aust.* **14**: 29–41 pl 1 [24 Apr. 1928] [38] [this name is based on males, which are rarely observed in this genus, and it may be synonymous with *Aenictus ceylonicus* (Mayr, 1866)]. Type data: syntypes (probable), NMV \*M, from Malanda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, woodland; nest in ground layer, army ant.

*Aenictus philiporum* Wilson, 1964

*Aenictus philiporum* Wilson, E.O. (1964). The true army ants of the Indo-Australian area (Hymenoptera : Formicidae : Dorylinae). *Pac. Insects Monogr.* **6**: 427–483 [10 Nov. 1964] [473]. Type data: holotype, MCZ \*W, from Iron Range, Cape York, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, open forest, closed forest; nest in ground layer, army ant.

## LEPTANILLINAE

*Leptanilla* Emery, 1870

*Leptanilla* Emery, C. (1870). Studi mirmecologici. *Boll. Soc. Entomol. Ital.* **2**: 193–201 [196 pl 2] [redefined in Urbani, C. Baroni (1977). Materiali per una revisione della sottofamiglia Leptanillinae Emery (Hymenoptera : Formicidae). *V. Entomologica Bas.* **2**: 427–488]. Type species *Leptanilla revelierii* Emery, 1870 by monotypy.

This group is also found in the south Palearctic and east Oriental regions, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp.

161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

*Leptanilla swani* Wheeler, 1932

*Leptanilla swani* Wheeler, W.M. (1932). An Australian *Leptanilla*. *Psyche Camb.* **39**: 53–58 [54]. Type data: syntypes, WAM 32–1252 to 32–1254 \*W, MCZ \*W,F, from Goyamin Pool, Chittering, W.A.

Distribution: SW coastal, NE coastal, N Gulf, N coastal, Qld., W.A. Ecology: terrestrial, nomadic, predator, woodland, open forest; nest in ground layer.

## MYRMICINAE

*Adlerzia* Forel, 1902

*Adlerzia* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [445] [proposed with subgeneric rank in *Monomorium* Mayr, 1855]. Type species *Monomorium (Adlerzia) froggatti* Forel, 1902 by original designation.

*Stenothorax* McAreavey, J.J. (1949). Australian Formicidae. New genera and species. *Proc. Linn. Soc. N.S.W.* **74**: 1–25 [15 June 1949] [3]. Type species *Stenothorax katerinae* McAreavey, 1949 by original designation.

Synonymy that of Brown, W.L. jr. (1952). *Adlerzia froggatti* Forel and some new synonymy (Hymenoptera : Formicidae). *Psyche Camb.* **58**: 110 [7 Apr. 1952].

*Adlerzia froggatti* (Forel, 1902)

*Monomorium (Adlerzia) froggatti* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [445]. Type data: holotype, GMNH W, from Bendigo, Vic.

*Machomyrma silvestrii* Emery, C. (1914). Formiche d'Australia e di Samoa raccolte dal Prof. Silvestri nel 1913. *Boll. Lab. Zool. Gen. Agr. R. Scuola Agric. Portici* **8**: 179–186 [30 Jan. 1914] [182]. Type data: holotype, MCG \*W, from Mt. Lofty, Adelaide, S.A.

*Stenothorax katerinae* McAreavey, J.J. (1949). Australian Formicidae. New genera and species. *Proc. Linn. Soc. N.S.W.* **74**: 1–25 [15 June 1949] [3]. Type data: holotype, whereabouts unknown, from Greensborough, Vic.

Synonymy that of Brown, W.L. jr. (1952). *Adlerzia froggatti* Forel and some new synonymy (Hymenoptera : Formicidae). *Psyche Camb.* **58**: 110.

Distribution: Murray-Darling basin, S Gulfs, SE coastal, Vic., S.A. Ecology: terrestrial, noctidiurnal, predator, tall open shrubland, woodland, open forest; nest in ground layer.



**Anisopheidole** Forel, 1914

**Anisopheidole** Forel, A. (1914). Einige amerikanische Ameisen. *Dtsch. Entomol. Zeit.* **1914**: 615–620 [10 Dec. 1914] [616] [proposed with subgeneric rank in *Pheidole* Westwood, 1841]. Type species *Pheidole froggatti* Forel, 1902 by monotypy.

**Anisopheidole antipodum** (F. Smith, 1858)

**Atta antipodum** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [166]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*F, from Swan River, W.A.

**Pheidole froggatti** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [414]. Type data: syntypes, GMNH W,M, ANIC W, from Kalgoorlie, W.A.

**Pheidole myops** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [421]. Type data: syntypes, whereabouts unknown., from Native Dog Bore, Darling River, N.S.W.

**Monomorium lippulum** Wheeler, W.M. (1927). Ants collected by Professor F. Silvestri in Indochina. *Boll. Lab. Zool. Gen. Agr. R. Scuola Agric. Portici* **20**: 83–106 [6 May 1927] [89]. Type data: syntypes, MCZ \*W, from Port Lincoln, S.A. and McDonnell (=McDonnell Range), N.T.

Synonymy that of Ettershank, G. (1966). A generic revision of the world Myrmicinae related to *Solenopsis* and *Pheidologeton* (Hymenoptera : Formicidae). *Aust. J. Zool.* **14**: 73–171 [132].

Distribution: Murray-Darling basin, Lake Eyre basin, W plateau, S Gulfs, N.S.W., S.A., W.A., N.T. Ecology: terrestrial, nocturnal, predator, shrubland, open forest; nest in soil.

**Aphaenogaster** Mayr, 1853

**Aphaenogaster** Mayr, G.L. (1853) Beiträge der Kenntniss der Ameisen. *Verh. Zool.-Bot. Ges. Wien* **3**: Abhand. 105–114 [107]. Type species *Aphaenogaster sardoa* Mayr, 1853 by subsequent designation, see Bingham, C.T. (1903). *The Fauna of British India, including Ceylon and Burma*. Hymenoptera. Vol. 2 Ants and cuckoo-wasps. London : Taylor & Francis 507 pp.

**Nystalomyrma** Wheeler, W. M. (1916). The Australian ants of the genus *Aphaenogaster* Mayr. *Trans. R. Soc. S. Aust.* **40**: 213–223 [23 Dec. 1916] [215 pls 21–22] [proposed with subgeneric rank in *Aphaenogaster* Mayr, 1853]. Type species *Myrmica longiceps* F. Smith, 1858 by original designation.

Synonymy that of Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. &

Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press [177].

This group is also found in the south Neotropical, Nearctic, Palearctic, Malagasy and Oriental regions; New Guinea in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

**Aphaenogaster barbigula** Wheeler, 1916

**Aphaenogaster (Nystalomyrma) barbigula** Wheeler, W.M. (1916). The Australian ants of the genus *Aphaenogaster* Mayr. *Trans. R. Soc. S. Aust.* **40**: 213–223 pls 21–22 [23 Dec. 1916] [221]. Type data: syntypes, MCZ \*W,F, from Adelaide, Meningie, Gawler, Karoonda to Peebinga, S.A. and Dongarra, Gooseberry Hill, Wallaby Is., Beverley, W.A. and Sea Lake, Vic. and Yanco, N.S.W.

Distribution: Murray-Darling basin, S Gulfs, SW coastal, W plateau, Lake Eyre basin, N.S.W., Vic., S.A., W.A. Ecology: terrestrial, nocturnal, predator, desert, shrubland, woodland; nest in soil.

**Aphaenogaster longiceps** (F. Smith, 1858)

**Myrmica longiceps** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [128]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Melbourne, Vic.

**Stenammas (Ischnomyrmex) longiceps ruginota** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [439]. Type data: syntypes, whereabouts unknown., from N.S.W. and Yarra distr., Vic.

Synonymy that of Wheeler, W.M. (1916). The Australian ants of the genus *Aphaenogaster* Mayr. *Trans. R. Soc. S. Aust.* **40**: 213–223 pls 21–22 [216]; Ettershank, G. (1966). A generic revision of the world Myrmecinae related to *Solenopsis* and *Pheidologeton* (Hymenoptera : Formicidae). *Aust. J. Zool.* **14**: 73–171 [132].

Distribution: SE coastal, SW coastal, N.S.W., Vic., W.A. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in soil.

**Aphaenogaster poultoni** Crawley, 1922

**Aphaenogaster poultoni** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **10**: 16–36 [17]. Type data: syntypes (probable), OUM \*W, from Beenup, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in soil.

***Aphaenogaster pythia* Forel, 1915**

***Aphaenogaster pythia*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [76]. Type data: syntypes, GMNH \*W,M,F, from Herberton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, open forest; nest in soil.

***Calyptomyrmex* Emery, 1887**

***Calyptomyrmex*** Emery, C. (1887). Catalogo delle Formiche esistenti nelle collezioni del Museo Civico di Genova. Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **25**: 427–473 [471 pls 1–2] [redefined in Bolton, B. (1981). A revision of the ant genera *Meranoplus* F. Smith, *Dicrospis* Emery and *Calyptomyrmex* Emery (Hymenoptera : Formicidae) in the Ethiopian zoogeographical region. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **42**: 43–81 (2 Feb. 1981)]. Type species *Calyptomyrmex beccarii* Emery, 1887 by monotypy.

This group is also found in the Ethiopian and east Oriental regions; New Guinea in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Calyptomyrmex schraderi* Forel, 1901**

***Calyptomyrmex schraderi*** Forel, A. (1901). Formiciden des Naturhistorischen Museums zu Hamburg. Neue *Calyptomyrmex*-, *Dacryon*-, *Podomyrma*-, und *Echinopla*-Arten. *Mitt. Naturh. Mus. Hamb.* **18**: 45–82 [50]. Type data: syntypes, probably destroyed in ZMH in W.W. II, from Australia.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

***Cardiocondyla* Emery, 1869**

***Cardiocondyla*** Emery, C. (1869). Enumerazione dei formicidi che rinvenngonsi nei contorni di Napoli con descrizione di specie nuove o meno conosciute. *Ann. Accad. Asp. Nat. Napoli (era 2)* **2**: 1–26 [20]. Type species *Cardiocondyla elegans* Emery, 1869 by monotypy. Compiled from secondary source: Wheeler, W.M. (1911). A list of the type species of the genera and subgenera of Formicidae. *Ann. N.Y. Acad. Sci.* **21**: 157–175 [17 Oct. 1911].

This group is also found in the south Palearctic, Ethiopian, Malagasy and Oriental regions; New Guinea, east Melanesia, New Caledonia and parts of Polynesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Cardiocondyla nuda* (Mayr, 1866)**

***Leptothorax nudus*** Mayr, G.L. (1866). Myrmecologische Beiträge. *Sber. Akad. Wiss. Wien* **53**(1): 484–517 [508]. Type data: status unknown, ?NHMW, from Ovalau, Viti, Fiji.

***Cardiocondyla nuda atalanta* Forel, 1915**

***Cardiocondyla nuda atalanta*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [75]. Type data: syntypes, GMNH W, other syntypes may exist, from Kimberley distr., W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in ground layer.

***Cardiocondyla nuda nereis* Wheeler, 1927**

***Cardiocondyla nuda nereis*** Wheeler, W.M. (1927). The ants of Lord Howe Island and Norfolk Island. *Proc. Am. Acad. Arts Sci.* **62**: 121–153 [140]. Type data: syntypes, MCZ \*W,F, from Norfolk Is.

Distribution: Norfolk Is. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in ground layer.

***Chelaner* Emery, 1914**

***Chelaner*** Emery, C. (1914). Les fourmis de la Nouvelle-Calédonie et des îles Loyalty. in Sarasin, F. & Roux, J. (1914–1921). *Forschungen in Neu-Caledonien und auf den Loyalty-Inseln*. Zoologie 1: 393–437 pl 13 [410] [proposed with subgeneric rank in *Monomorium* Mayr, 1855]. Type species *Monomorium (Chelaner) forcipatum* Emery, 1914 by subsequent designation, see Emery, C. (1921). Hymenoptera. Fam. Formicidae. subfam. Myrmecinae. in Wytman, P. (ed.) *Genera Insectorum*. Fasc. 174C pp. 207–397 7 pls.

***Protholcomyrme*** Wheeler, W.M. (1922). Ants of the American Museum Congo Expedition. A contribution to the myrmecology of Africa. II. The ants collected by the American Museum Congo Expedition. *Bull. Am. Mus. Nat. Hist.* **45**: 39–269 pls 2–23 [10 Feb. 1922] [162] [proposed with subgeneric rank in *Monomorium* Mayr, 1855]. Type species *Monomorium rothsteini* Forel, 1902 by original designation.

***Schizopelta*** McAreavey, J.J. (1949). Australian Formicidae. New genera and species. *Proc. Linn. Soc. N.S.W.* **74**: 1–25 [15 June 1949] [14]. Type species

*Schizopelta falcata* McAreavey, 1949 by original designation.

Synonymy that of Ettershank, G. (1966). A generic revision of the world Myrmicinae related to *Solenopsis* and *Pheidologeton* (Hymenoptera : Formicidae). *Aust. J. Zool.* **14**: 73–171 [93].

This group is also found in New Guinea, New Caledonia, New Zealand, Kermadec IIs. and Rapa in Polynesia.

***Chelaner armstrongi*** (McAreavey, 1949)

***Monomorium (Holcomyrmex) armstrongi*** McAreavey, J.J. (1949). Australian Formicidae. New genera and species. *Proc. Linn. Soc. N.S.W.* **74**: 1–25 [15 June 1949] [10]. Type data: holotype, ANIC W, from Nyngan, N.S.W.

Distribution: NE coastal, N coastal, Qld., W.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland, open forest; nest in soil.

***Chelaner bicornis*** (Forel, 1907)

***Monomorium bicornis*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [276]. Type data: holotype, probably destroyed in ZMH in WW II, from Gooseberry (=Gooseberry) Hill, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Chelaner centralis*** (Forel, 1910)

***Monomorium centrale*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [28]. Type data: holotype, GMNH W, from Tennant Creek, N.T.

Distribution: W plateau, N.T. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.

***Chelaner falcatus*** (McAreavey, 1949)

***Schizopelta falcata*** McAreavey, J.J. (1949). Australian Formicidae. New genera and species. *Proc. Linn. Soc. N.S.W.* **74**: 1–25 [15 June 1949] [15]. Type data: holotype, ANIC W, from Nyngan, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, predator, desert, woodland, open forest; nest in soil.

***Chelaner flavigaster*** (Clark, 1938)

***Xiphomyrmex flavigaster*** Clark, J. (1938). Reports of the McCoy Society for Field Investigation and Research. No. 2. Sir Joseph Banks Islands. Part I. Formicidae (Hymenoptera). *Proc. R. Soc. Vict.* **50**: 356–382 [366]. Type data: syntypes, NMV \*W, from Reevesby Is., S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil. Biological references: Bolton, B. (1976). The ant tribe Tetramoriini (Hymenoptera : Formicidae). Constituent genera, review of small genera and revision of *Triglyphothrix* Forel. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **34**: 283–379 (transferred to *Chelaner*).

***Chelaner flavipes*** (Clark, 1938)

***Monomorium (Notomyrmex) flavipes*** Clark, J. (1938). Reports of the McCoy Society for Field Investigation and Research. No. 2. Sir Joseph Banks Islands. Part I. Formicidae (Hymenoptera). *Proc. R. Soc. Vict.* **50**: 356–382 [369]. Type data: syntypes, NMV \*W,F, from N end of Reevesby Is., S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Chelaner foreli*** (Viehmeyer, 1913)

***Monomorium (Holcomyrmex) foreli*** Viehmeyer, H. (1913). Neue und unvollständig bekannte Ameisen der Alten Welt. *Arch. Naturg.* **79A**(12): 24–60 [32]. Type data: syntypes, ZMB \*W, ANIC W, from Killalpaninna, S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.

***Chelaner gilberti*** (Forel, 1902)

***Chelaner gilberti gilberti*** (Forel, 1902)

***Monomorium gilberti*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [440]. Type data: syntypes, GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Chelaner gilberti mediorubrus*** (Forel, 1915)

***Monomorium gilberti mediorubra*** Forel, A. (1915). Results of Dr. E. Mjöbergs Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [72]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Malanda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Chelaner howensis*** (Wheeler, 1927)

***Monomorium (Notomyrmex) howense*** Wheeler, W.M. (1927). The ants of Lord Howe Island and Norfolk Island. *Proc. Am. Acad. Arts Sci.* **62**: 121–153 [138]. Type data: syntypes, MCZ \*W,F, from Lord Howe Is.



Distribution: Lord Howe Is. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Chelaner inolescens*** (Wheeler, 1934)

***Monomorium (Notomyrmex) inolescens*** Wheeler, W.M. (1934). Contributions to the fauna of Rottnest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* **20**: 137–163 [5 Oct. 1934] [145]. Type data: syntypes, MCZ \*W,M, from Derby, W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.

***Chelaner insularis*** (Clark, 1938)

***Monomorium (Notomyrmex) insularis*** Clark, J. (1938). Reports of the McCoy Society for Field Investigation and Research. No. 2. Sir Joseph Bank Islands. Part I. Formicidae (Hymenoptera). *Proc. R. Soc. Vict.* **50**: 356–382 [368]. Type data: syntypes, NMV \*W,F, from Reevesby Is., S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Chelaner kiliani*** (Forel, 1902)

***Chelaner kiliani kiliani*** (Forel, 1902)

***Monomorium kiliani*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [441]. Type data: syntypes, GMNH W, ANIC W, from Bong Bong, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Chelaner kiliani obscurellus*** (Viehmeyer, 1925)

***Monomorium kiliani obscurella*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 25–39 [27]. Type data: syntypes (probable), ZMB \*W, from Liverpool, N.S.W.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Chelaner kiliani tambourinensis*** (Forel, 1915)

***Monomorium kiliani tambourinensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [71]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Mt. Tambourine (=Tamborine Mt.), Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Chelaner leae*** (Forel, 1913)

***Monomorium leae*** Forel, A. (1913). Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* **49**: 173–196 pl 2 [185]. Type data: syntypes, GMNH W,F, ANIC W, from Tas.

***Monomorium (Notomyrmex) hemiphaeum*** Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* **8**: 48–73 [61 pl 4]. Type data: syntypes, NMV \*W,F, from Beech Forest and Gellibrand, Vic.

Synonymy that of Ettershank, G. (1966). A generic revision of the world Myrmicinae related to *Solenopsis* and *Pheidologeton* (Hymenoptera : Formicidae). *Aust. J. Zool.* **14**: 73–171 [97].

Distribution: SE coastal, Vic., Tas. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Chelaner longiceps*** (Wheeler, 1934)

***Monomorium (Notomyrmex) longiceps*** Wheeler, W.M. (1934). Contributions to the fauna of Rottnest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* **20**: 137–163 [5 Oct. 1934] [146]. Type data: syntypes, MCZ \*W, from Lady Edeline Beach, Rottnest Is. and Ludlow, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Chelaner macareaveyi*** Ettershank, 1966

***Monomorium (Holcomyrmex) niger*** McAreavey, J.J. (1949). Australian Formicidae. New genera and species. *Proc. Linn. Soc. N.S.W.* **74**: 1–25 [15 June 1949] [12] [non *Holcomyrmex criniceps nigrum* Forel, 1902]. Type data: holotype, ANIC W, from Nyngan, N.S.W.

***Chelaner macareaveyi*** Ettershank, G. (1966). A generic revision of the world Myrmicinae related to *Solenopsis* and *Pheidologeton* (Hymenoptera : Formicidae). *Aust. J. Zool.* **14**: 73–171 [97] [*nom. nov.* for *Monomorium (Holcomyrmex) niger* McAreavey, 1949].

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.

***Chelaner occidaneus*** (Crawley, 1922)

***Monomorium occidaneus*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **9**: 427–448 [447]. Type data: syntypes, OUM \*W,F, from Swan River, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Chelaner rothsteini*** (Forel, 1902)***Chelaner rothsteini rothsteini*** (Forel, 1902)

***Monomorium rothsteini*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [444]. Type data: syntypes, GMNH W, ANIC W, from Charters Towers, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Chelaner rothsteini humilior*** (Forel, 1910)

***Monomorium rothsteini humilior*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [27]. Type data: holotype, GMNH W, from Tennant Creek, N.T.

Distribution: W plateau, N.T. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.

***Chelaner rothsteini leda*** (Forel, 1915)

***Monomorium rothsteini leda*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [71]. Type data: syntypes, GMNH W,M, ANIC W, other syntypes may exist, from Kimberley distr. and Noonkanbah, W.A. and Laura and Alice River, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Chelaner rothsteini tostum*** (Wheeler, 1915)

***Monomorium rothsteini tostum*** Wheeler, W.M. (1915). Hymenoptera. *Trans. R. Soc. S. Aust.* **39**: 805–823 pls 64–66 [Dec. 1915] [806]. Type data: syntypes, MCZ \*W, from Everard Range, S.A.

Distribution: W plateau, S.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.

***Chelaner rothsteini doddi*** (Santschi, 1919)

***Monomorium (Paraholcomyrmex) rothsteini doddi*** Santschi, F. (1919). Cinq notes myrmécologiques. *Bull. Soc. Vaud. Sci. Nat.* **52**: 325–350 [328]. Type data: syntypes, BNHM W, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Chelaner rothsteini squamigena*** (Viehmeyer, 1925)

***Monomorium rothsteini squamigena*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 25–39 [28]. Type data: holotype, ZMB \*W, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Chelaner rubriceps*** (Mayr, 1876)***Chelaner rubriceps rubriceps*** (Mayr, 1876)

***Monomorium rubriceps*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [101]. Type data: syntypes, NHMW W,M, from Cape York and Rockhampton, Qld. and Sidney (=Sydney), N.S.W.

Distribution: NE coastal, SE coastal, Qld., N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in ground layer.

***Chelaner rubriceps cinctus*** (Wheeler, 1917)

***Monomorium rubriceps cinctum*** Wheeler, W.M. (1917). The phylogenetic development of subapterous and apterous castes in the Formicidae. *Proc. Nat. Acad. Sci. U.S.A.* **3**: 109–117 [113]. Type data: syntypes, MCZ \*W,F, from Vic.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.

***Chelaner rubriceps extremigris*** (Forel, 1915)

***Monomorium rubriceps extremigrum*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [73]. Type data: holotype, SMNH \*W, from Cedar Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in ground layer.

***Chelaner rubriceps rubrus*** (Forel, 1915)

***Monomorium rubriceps rubra*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [72]. Type data: syntypes, GMNH W,M,F, ANIC W, other syntypes may exist, from N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in ground layer.

***Chelaner sanguinolentus*** (Wheeler, 1927)

***Monomorium (Notomyrmex) sanguinolentum*** Wheeler, W.M. (1927). The ants of Lord Howe Island and Norfolk Island. *Proc. Am. Acad. Arts Sci.* **62**: 121–153 [135]. Type data: syntypes, MCZ \*W,M, from Norfolk Is.

Distribution: Norfolk Is. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Chelaner sculpturatus*** (Clark, 1934)

***Monomorium (Notomyrmex) sculpturatum*** Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* **8**: 48–73 [59 pl 4]. Type data: syntypes, NMV \*W,F, from Beech Forest, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, nocturnal, predator, open forest, closed forest; nest in ground layer.

*Chelaner sordidus* (Forel, 1902)

*Chelaner sordidus sordidus* (Forel, 1902)

*Monomorium sordidum* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [443]. Type data: syntypes, GMNH W, ANIC W, from Queanbeyan, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in ground layer.

*Chelaner sordidus nigriventris* (Forel, 1910)

*Monomorium sordidum nigriventris* Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [29]. Type data: syntypes, GMNH W, F, ANIC W, from Howlong, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in ground layer.

*Chelaner subapterus* (Wheeler, 1917)

*Chelaner subapterus subapterus* (Wheeler, 1917)

*Monomorium subapterum* Wheeler, W.M. (1917). The phylogenetic development of subapterous and apterous castes in the Formicidae. *Proc. Nat. Acad. Sci. U.S.A.* **3**: 109–117 [112]. Type data: syntypes, MCZ \*W, F, M, from Harding River and Derby, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, nocturnal, predator, desert, woodland; nest in soil.

*Chelaner subapterus bogischi* (Wheeler, 1917)

*Monomorium subapterum bogischi* Wheeler, W.M. (1917). The phylogenetic development of subapterous and apterous castes in the Formicidae. *Proc. Nat. Acad. Sci. U.S.A.* **3**: 109–117 [112]. Type data: syntypes, MCZ \*W, F, from Point (=Port) Wakefield, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, nocturnal, predator, desert, woodland; nest in soil.

*Chelaner turneri* (Forel, 1910)

*Vollenhovia turneri* Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [26]. Type data: syntypes, GMNH W, ANIC W, from Kuranda near Cairns, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

*Chelaner whitei* (Wheeler, 1915)

*Monomorium (Holcomyrrex) whitei* Wheeler, W.M. (1915). Hymenoptera. *Trans. R. Soc. S. Aust.* **39**:

805–823 pls 64–66 [Dec. 1915] [807]. Type data: syntypes, MCZ \*W, from Flat Rock Hole in the Musgrave Ranges, S.A.

Distribution: W plateau, S.A. Ecology: terrestrial, nocturnal, predator, desert, woodland; nest in soil.

*Colobostruma* Wheeler, 1927

*Colobostruma* Wheeler, W.M. (1927). The physiognomy of insects. *Q. Rev. Biol.* **2**: 1–36 [32] [proposed with subgeneric rank in *Epopostruma* Forel, 1895]. Type species *Epopostruma (Colobostruma) leae* Wheeler, 1927 by monotypy.

*Clarkistruma* Brown, W.L. jr. (1948). A preliminary generic revision of the higher Dacetini (Hymenoptera : Formicidae). *Trans. Am. Entomol. Soc.* **74**: 101–129 [27 July 1948] [124]. Type species *Epopostruma alinodis* Forel, 1913 by original designation.

Synonymy that of Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press. [177].

This group is also found in New Guinea and east Melanesia.

*Colobostruma alinodis* (Forel, 1913)

*Epopostruma alinodis* Forel, A. (1913). Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* **49**: 173–196 pl 2 [179]. Type data: syntypes, GMNH W, ANIC W, from Railton, Tas.

Distribution: SE coastal, Murray-Darling basin, Vic., N.S.W., Tas. Ecology: terrestrial, nocturnal, predator, open forest; nest in ground layer.

*Colobostruma australis* Brown, 1959

*Colobostruma australis* Brown, W.L. jr. (1959). Some new species of dacetine ants. *Breviora* **108**: 1–11 [7 May 1959] [4]. Type data: holotype, MCZ \*W, from Kallista in the Dandenong Range, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in ground layer.

*Colobostruma cerornata* Brown, 1959

*Colobostruma cerornata* Brown, W.L. jr. (1959). Some new species of dacetine ants. *Breviora* **108**: 1–11 [7 May 1959] [1]. Type data: holotype, MCZ \*W, from Dempster Head (=Telegraph Hill), Esperance, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, predator, tall shrubland; nest in ground layer.



***Colobostruma ellioti*** (Clark, 1928)

***Epitritus ellioti*** Clark, J. (1928). Entomological Reports. Formicidae. in, Report of the Victorian Field Naturalists' expedition through the Western District of Victoria. *Vict. Nat.* **45** suppl.: 39–44 [42]. Type data: syntypes, NMV \*W,F, from Mt. Arapiles, Vic.

Distribution: Murray-Darling basin, N.S.W., Vic. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Colobostruma froggatti*** (Forel, 1913)

***Epopostruma froggatti*** Forel, A. (1913). Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* **49**: 173–196 pl 2 [177]. Type data: syntypes, GMNH W, from New Norfolk, Tas.

Distribution: SE coastal, Murray-Darling basin, Vic., N.S.W., Tas. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Colobostruma leae*** (Wheeler, 1927)

***Epopostruma (Colobostruma) leae*** Wheeler, W.M. (1927). The physiognomy of insects. *Q. Rev. Biol.* **2**: 1–36 [32 fig 4]. Type data: holotype, MCZ \*F, from Cairns district, Qld., see Brown, W.L. jr. (1948). A preliminary generic revision of the higher Dacetini (Hymenoptera : Formicidae). *Trans. Am. Entomol. Soc.* **74**: 101–129 [27 July 1948] [118].

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest; nest in ground layer.

***Colobostruma nancyae*** Brown, 1965

***Colobostruma nancyae*** Brown, W.L. jr. (1965). *Colobostruma nancyae* species nov. Pilot Register of Zoology, Cornell University, Ithaca, New York, Card no. 22 [5 Apr. 1965]. Type data: holotype, MCZ \*W, from 8 km NE of (old) Thomas River Station, about 100 km E of Esperance, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, tall shrubland; nest in ground layer.

***Colobostruma papulata*** Brown, 1965

***Colobostruma papulata*** Brown, W.L. jr. (1965). *Colobostruma papulata* species nov. Insecta : Hymenoptera : Formicidae. Pilot Register of Zoology, Cornell University, Ithaca, New York, Card no. 21 [5 Apr. 1965]. Type data: holotype, MCZ \*W, from Dempster Head (=Telegraph Hill) at Esperance, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, tall shrubland; nest in ground layer.

***Crematogaster*** Lund, 1831

***Crematogaster*** Lund, M. (1831). Lettre sur les habitudes de quelques fourmis de Brésil, adressée à M. Audouin. *Ann. Sci. Nat.* **23**: 113–138 [132]. Type species *Formica*

*scutellaris* Olivier, 1791 by subsequent designation, see Bingham, C.T. (1903). *The Fauna of British India, including Ceylon and Burma*. Hymenoptera. Vol. 2 Ants and cuckoo wasps. London : Taylor & Francis [124].

***Crematogaster*** Mayr, G.L. (1861). *Die europäischen Formiciden. (Ameisen.) Nach der analytischen Methode bearbeitet*. Vienna : Carl Gerolds Sohn 80 pp. 1 pl [74] [invalid emend. of *Crematogaster* Lund, 1831].

This group is also found in the Neotropical, Nearctic, south Palearctic, Ethiopian, Malagasy and Oriental regions; widespread in the Australian Region except New Zealand and Polynesia, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Crematogaster australis*** Mayr, 1876***Crematogaster australis australis*** Mayr, 1876

***Crematogaster australis*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [108]. Type data: syntypes, NHMW W,F,M, from Peak Downs, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster australis chillagoensis*** Forel, 1915

***Crematogaster australis chillagoensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [57]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Chillagoe, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster australis sycites*** Forel, 1916

***Crematogaster australis sycites*** Forel, A. (1916). Fourmis du Congo et d'autres provenances récoltées par MM. Hermann, Kohl, Luja, Mayné, etc. *Rev. Suisse Zool.* **24**: 397–460 [406]. Type data: syntypes (probable), GMNH (probable) \*W, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster cornigera*** Forel, 1902

***Crematogaster cornigera*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [407]. Type data: syntypes, GMNH W,F, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster dispar* Forel, 1902**

***Crematogaster sordidula dispar*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [412]. Type data: syntypes, GMNH W,F,M, ANIC W, from Bendigo, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer. Biological references: Emery, C. (1922). Hymenoptera Fam. Formicidae subfam. Myrmicinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 174B 112 pp. (raised to species).

***Crematogaster eurydice* Forel, 1915**

***Crematogaster (Atopogyne) eurydice*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [56]. Type data: syntypes, GMNH F, other syntypes may exist, from Noonkanbah, W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster frivola* Forel, 1902**

***Crematogaster frivola frivola* Forel, 1902**

***Crematogaster frivola*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [412]. Type data: syntypes, GMNH W, ANIC W, from Kalgoorlie, W.A.

Distribution: W plateau, W.A. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster frivola sculpticeps* Forel, 1907**

***Crematogaster frivola sculpticeps*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol.1 [279]. Type data: syntypes, GMNH W, from Kalgoorlie, W.A.

Distribution: W plateau, W.A. Ecology: terrestrial, diurnal, predator, woodland; nest in ground layer.

***Crematogaster fusca* Mayr, 1876**

***Crematogaster fusca*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [107]. Type data: syntypes, NHMW W, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster kutteri* Viehmeyer, 1924**

***Crematogaster kutteri*** Viehmeyer, H. (1924). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **13**: 310–319 [314]. Type data: syntypes, ZMB \*W, from Liverpool and Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster laeviceps* F. Smith, 1858**

***Crematogaster laeviceps laeviceps* F. Smith, 1858**

***Crematogaster laeviceps*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [138]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes, BMNH \*W,F, from Melbourne, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster laeviceps broomensis* Forel, 1915**

***Crematogaster laeviceps broomensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [56]. Type data: syntypes, GMNH (probable) \*W, from Broome, W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster laeviceps chasei* Forel, 1902**

***Crematogaster laeviceps chasei*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [413]. Type data: syntypes, GMNH W, ANIC W, from Perth, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster laeviceps clarior* Forel, 1902**

***Crematogaster laeviceps clarior*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [414]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

*Crematogaster longiceps* Forel, 1910

*Crematogaster longiceps longiceps* Forel, 1910

*Cremastogaster longiceps* Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [32]. Type data: syntypes, GMNH W,F, ANIC W, from Tennant Creek, N.T.

Distribution: W plateau, N.T. Ecology: terrestrial, diurnal, predator, desert, woodland; nest in ground layer.

*Crematogaster longiceps curticeps* Wheeler, 1915

*Crematogaster longiceps curticeps* Wheeler, W.M. (1915). Hymenoptera. *Trans. R. Soc. S. Aust.* **39**: 805–823 pls 64–66 [Dec. 1915] [809]. Type data: syntypes, MCZ \*W, from Ellery Creek in the MacDonnell Ranges, N.T.

Distribution: Lake Eyre basin, N.T. Ecology: terrestrial, diurnal, predator, desert, woodland; nest in ground layer.

*Crematogaster mjobergi* Forel, 1915

*Cremastogaster mjobergi* Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [54]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Kimberley distr., W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

*Crematogaster pallida* Lowne, 1865

*Crematogaster pallidus* Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* **2**: 331–336 [335]. Type data: syntypes, BMNH (probable) \*W,F, from Sidney (=Sydney), N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

*Crematogaster pallipes* Mayr, 1862

*Cremastogaster pallipes* Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* **12**: Abhand. 649–776 [768 pl 19]. Type data: syntypes, NHMW W, from Sidney (=Sydney), N.S.W.

*Crematogaster piceus* Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* **2**: 331–336 [335]. Type data: syntypes (probable), BMNH (probable) \*W, from Sidney (=Sydney), N.S.W.

*Crematogaster pallidipes* Dalla Torre, C.G. De (1893). *Catalogus hymenopterorum hucusque descriptorum systematicus et synonymicus*. Vol. 7 Formicidae (Heterogyna). Lipsiae : G. Engelmann 289 pp. [84] [invalid emend. of *Cremastogaster pallipes* Mayr, 1862].

Synonymy that of Emery, C. (1922). Hymenoptera Fam. Formicidae subfam. Myrmicinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 174B Brussels pp. 95–206 [133].

Distribution: SE coastal, N.S.W. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

*Crematogaster perthensis* Crawley, 1922

*Crematogaster perthensis* Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **10**: 16–36 [21]. Type data: syntypes, OUM \*W,M, BMNH \*W, from Perth, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

*Crematogaster pythia* Forel, 1915

*Crematogaster pythia* Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [53]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Yarrabah, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

*Crematogaster queenslandica* Forel, 1902

*Crematogaster queenslandica queenslandica* Forel, 1902

*Cremastogaster sordidula queenslandica* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [410]. Type data: syntypes, GMNH W,F, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer. Biological references: Emery, C. (1921). Hymenoptera. Fam. Formicidae subfam. Myrmicinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 174A Brussels pp. 1–94 (raised to species).

*Crematogaster queenslandica froggatti* Forel, 1902

*Cremastogaster sordidula froggatti* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [410]. Type data: syntypes, GMNH W,F, ANIC W, from Sydney, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

*Crematogaster queenslandica gilberti* Forel, 1910

*Cremastogaster sordidula gilberti* Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [32]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.



Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster queenslandica rogans* Forel, 1902**

***Crematogaster sordidula rogans* Forel, A. (1902).** Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [411]. Type data: syntypes, GMNH W,F, ANIC W, from Sydney, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster queenslandica scabrula* Emery, 1914**

***Crematogaster froggatti scabrula* Emery, C. (1914).** Formiche d'Australie e di Samoa raccolte dal Prof. Silvestri nel 1913. *Boll. Lab. Zool. Gen. Agr. R. Scuola Agric. Portici* **8**: 179–186 [30 Jan. 1914] [184]. Type data: syntypes (probable), MCG \*W, from Mt. Lofty, Adelaide, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster rufotestacea* Mayr, 1876**

***Crematogaster rufotestacea rufotestacea* Mayr, 1876**

***Crematogaster rufotestacea* Mayr, G.L. (1876).** Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [109]. Type data: holotype, NHMW W, from Sidney (=Sydney), N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster rufotestacea dentinasis* Santschi, 1929**

***Crematogaster (Orthocrema) rufotestacea dentinasis* Santschi, F. (1929).** Mélange myrmécologique. *Wien Entomol. Ztg.* **46**: 84–93 [15 Sept. 1929] [89]. Type data: syntypes, BNHM W,F,M, from Mittagong, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster scita* Forel, 1902**

***Crematogaster scita scita* Forel, 1902**

***Crematogaster scita* Forel, A. (1902).** Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [409]. Type data: syntypes, GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster scita mixta* Forel, 1902**

***Crematogaster scita mixta* Forel, A. (1902).** Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [409]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, predator, woodland, open forest; nest in ground layer.

***Crematogaster whitei* Wheeler, 1915**

***Crematogaster whitei* Wheeler, W.M. (1915).** Hymenoptera. *Trans. R. Soc. S. Aust.* **39**: 805–823 pls 64–66 [Dec. 1915] [808]. Type data: holotype, MCZ \*W, from Everard Range, S.A.

Distribution: W plateau, S.A. Ecology: terrestrial, diurnal, predator, desert, woodland; nest in ground layer.

***Crematogaster xerophila* Wheeler, 1915**

***Crematogaster xerophila xerophila* Wheeler, 1915**

***Crematogaster xerophila* Wheeler, W.M. (1915).** Hymenoptera. *Trans. R. Soc. S. Aust.* **39**: 805–823 pls 64–66 [Dec. 1915] [810]. Type data: syntypes, MCZ \*W, from Moorilyanna, S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, diurnal, predator, desert, woodland; nest in ground layer.

***Crematogaster xerophila exigua* Wheeler, 1915**

***Crematogaster xerophila exigua* Wheeler, W.M. (1915).** Hymenoptera. *Trans. R. Soc. S. Aust.* **39**: 805–823 pls 64–66 [Dec. 1915] [811]. Type data: syntypes, MCZ \*W, from Moorilyanna, S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, diurnal, predator, desert, woodland; nest in ground layer.

***Epopostruma* Forel, 1895**

***Epopostruma* Forel, A. (1895).** Nouvelles fourmis d'Australie, récoltées à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* **39**: 417–428 [422] [proposed with subgeneric rank in *Strumigenys* F. Smith, 1860]. Type species *Strumigenys (Epopostruma) quadrispinosa* Forel, 1895 by subsequent designation, see Wheeler, W.M. (1911). A list of the type species of the genera and subgenera of Formicidae. *Ann. N.Y. Acad. Sci.* **21**: 157–175 [7 Oct. 1911].

***Hexadaceton* Brown, W.L. jr. (1948).** A preliminary generic revision of the higher Dacetini (Hymenoptera : Formicidae). *Trans. Am. Entomol. Soc.* **74**: 101–129 [27 July 1948] [120]. Type species *Hexadaceton frosti* Brown, 1948 by original designation.

Synonymy that of Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press [177].

***Epopostruma frosti* (Brown, 1948)**

***Hexadaceton frosti*** Brown, W.L. jr. (1948). A preliminary generic revision of the higher Dacetini (Hymenoptera : Formicidae). *Trans. Am. Entomol. Soc.* **74**: 101–129 [27 July 1948] [120]. Type data: holotype, MCZ No. 27838 \*W, from N Mecklenburg, S.A."

Distribution: S Gulfs, W plateau, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Epopostruma monstrosa* Viehmeyer, 1925**

***Epopostruma monstrosa*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 25–39 [30]. Type data: holotype, ZMB \*F, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, open forest; nest in ground layer.

***Epopostruma quadrispinosa* (Forel, 1895)**

***Epopostruma quadrispinosa quadrispinosa*** (Forel, 1895)

***Strumigenys (Epopostruma) quadrispinosa*** Forel, A. (1895). Nouvelles fourmis d'Australie, récoltée à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* **39**: 417–428 [422]. Type data: holotype, GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. [51]. Type data: holotype, GMNH F, from N.S.W.

Distribution: N.S.W.; State only specified. Ecology: terrestrial, noctidiurnal, predator, open forest; nest in ground layer.

***Eurhopalothrix* Brown and Kempf, 1961**

***Eurhopalothrix*** Brown, W.L. jr. & Kempf, W.W. (1961). The type species of the ant genus *Eurhopalothrix*. *Psyche Camb.* **67**: 44 [16 Feb. 1961]. Type species *Rhopalothrix bolaii* Mayr, 1870 by original designation.

This group is also found in the Neotropical, south Nearctic and east Oriental regions; New Guinea, east Melanesia, New Caledonia and Samoa in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press. Species now known not to occur in Australia: *Rhopalothrix emeryi*, see Brown, W.L. jr. & Kempf, W.W. (1960). A world revision of the ant tribe Basicerotini (Hym. Formicidae). *Studia Entomol.* **3**: 161–250 [as *Eurhopalothrix emeryi* (Forel, 1912)].

***Eurhopalothrix australis* Brown and Kempf, 1960**

***Eurhopalothrix australis*** Brown, W.L. jr. & Kempf, W.W. (1960). A world revision of the ant tribe Basicerotini (Hym. Formicidae). *Studia Entomol.* **3**: 161–250 [218]. Type data: holotype, MCZ \*W, from near Crawford's Lookout by the Beatrice River, on the Millaa-Millaa-Innisfail Highway descending from the Atherton Tableland, Qld.

Distribution: NE coastal, SE coastal, N.S.W., Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Eurhopalothrix procera* (Emery, 1897)**

***Rhopalothrix procera*** Emery, C. (1897). Formicidarum species novae vel minus cognitae in collectione Musaei Nationalis Hungarici, quas in Nova-Guinea, Colonia Germanica, collegit L. Biró. *Termész. Füzet.* **20**: 571–599 pls 14–15 [572]. Type data: syntypes, MCG \*W,F, from Berlinhafen (= Aitape), Seleo Is. and Friedrich-Wilhelmshafen (= Madang), New Guinea.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Glamyromyrmex* Wheeler, 1915**

***Glamyromyrmex*** Wheeler, W.M. (1915). Two new genera of myrmicine ants from Brazil. *Bull. Mus. Comp. Zool.* **59**: 483–491 [487]. Type species *Glamyromyrmex beebeyi* Wheeler, 1915 by monotypy.

This group is also found in the Neotropical and north Ethiopian regions; New Guinea in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Glamyromyrmex flagellatus* (Taylor, 1962)**

***Codiomyrmex flagellatus*** Taylor, R.W. (1962). New Australian dacetine ants of the genera *Mesostruma* Brown and *Codiomyrmex* Wheeler (Hymenoptera : Formicidae). *Breviora* 152: 1–10 [15 Jan. 1962] [7]. Type data: holotype, QM \*W, from Clump Point near Mourilyan, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Glamyromyrmex semicomptus* (Brown, 1959)**

***Codiomyrmex semicomptus*** Brown, W.L. jr. (1959). Some new species of dacetine ants. *Breviora* 108: 1–11 [7 May 1959] [9]. Type data: holotype, MCZ \*W, from Shipton's Flat, about 20–25 mi S of Cooktown, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

**Leptothorax** Mayr, 1855

**Leptothorax** Mayr, G.L. (1855). Formicina Austriaca. *Verh. Zool.-Bot. Ges. Wien* 5: Abhand. 273–478 [431]. Type species *Myrmica clypeata* Mayr, 1853 by subsequent designation, see Emery, C. (1912). Les espèces-type des genres et sous-genres de la famille des Formicidae. *Ann. Soc. Entomol. Belg.* 56: 271–273 [271].

This group is also found in the Neotropical, Nearctic, Palearctic, Ethiopian, Malagasy and west Oriental regions, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

**Leptothorax australis** Wheeler, 1934

**Leptothorax** (*Goniothorax*) **australis** Wheeler, W.M. (1934). An Australian ant of the genus *Leptothorax* Mayr. *Psyche Camb.* 41: 60–62 [60]. Type data: syntypes, MCZ \*W, from Cairns distr., Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

**Lordomyrma** Emery, 1897

**Lordomyrma** Emery, C. (1897). Formicidarum species novae vel minus cognitae in collectione Musaei Nationalis Hungarici, quas in Nova-Guinea, Colonia Germanica, collegit L. Biró. *Termész. Füzet.* 20: 571–599 [591 pls 14–15]. Type species *Lordomyrma furcifera* Emery, 1897 by subsequent designation, see Wheeler, W.M. (1911). A list of the type species of the genera and subgenera of Formicidae. *Ann. N.Y. Acad. Sci.* 21: 157–175 [17 Oct. 1911].

This group is also found in the north Ethiopian and Oriental regions; New Guinea, east Melanesia and New Caledonia in the Australian Region (apparent "species flock" on New Caledonia and Fiji), see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

**Lordomyrma leae** Wheeler, 1919

**Lordomyrma leae** Wheeler, W.M. (1919). The ant genus *Lordomyrma* Emery. *Psyche Camb.* 26: 97–106 [102]. Type data: syntypes, MCZ \*W,M, from Lord Howe Is.

Distribution: Lord Howe Is. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

**Lordomyrma punctiventris** Wheeler, 1919

**Lordomyrma punctiventris** Wheeler, W.M. (1919). The ant genus *Lordomyrma* Emery. *Psyche Camb.* 26: 97–106 [105]. Type data: syntypes, MCZ \*W, from Kuranda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

**Machomyrma** Forel, 1895

**Machomyrma** Forel, A. (1895). Nouvelles fourmis d'Australie, récoltées à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* 39: 417–428 [425] [proposed with subgeneric rank in *Liomyrmex* Mayr, 1865]. Type species *Liomyrmex* (*Machomyrma*) *dispar* Forel, 1895 by monotypy.

**Machomyrma dispar** (Forel, 1895)

**Liomyrmex** (*Machomyrma*) **dispar** Forel, A. (1895). Nouvelles fourmis d'Australie, récoltée à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* 39: 417–428 [425]. Type data: syntypes, GMNH W,F, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

**Mayriella** Forel, 1902

**Mayriella** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [425]. Type species *Mayriella abstinens* Forel, 1902 by monotypy.

This group is also found in the east Oriental region; New Guinea in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

**Mayriella abstinens** Forel, 1902**Mayriella abstinens abstinens** Forel, 1902

**Mayriella abstinens** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [452]. Type data: syntypes, GMNH W, from Mackay, Qld.

**Mayriella overbecki** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* 14: 25–39 [26]. Type data: syntypes, ZMB \*W,F, from Trial Bay, N.S.W.

Synonymy that of Wheeler, W.M. (1935). The Australian ant genus *Mayriella* Forel. *Psyche Camb.* 42: 151–160 [157].

Distribution: NE coastal, SE coastal, Qld., N.S.W., Vic. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.



***Mayriella abstinens hackeri* Wheeler, 1935**

***Mayriella abstinens hackeri*** Wheeler, W.M. (1935). The Australian ant genus *Mayriella* Forel. *Psyche Camb.* **42**: 151–160 [157]. Type data: syntypes, MCZ \*W,F, from Brisbane, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Mayriella abstinens venustula* Wheeler, 1935**

***Mayriella abstinens venustula*** Wheeler, W.M. (1935). The Australian ant genus *Mayriella* Forel. *Psyche Camb.* **42**: 151–160 [158]. Type data: holotype, MCZ \*W, from Mt. Tambourine (=Tamborine Mt.), Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Mayriella spinosior* Wheeler, 1935**

***Mayriella spinosior*** Wheeler, W.M. (1935). The Australian ant genus *Mayriella* Forel. *Psyche Camb.* **42**: 151–160 [159]. Type data: holotype, MCZ \*W, from Cairns distr., Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Meranoplus* F. Smith, 1854**

***Meranoplus*** Smith, F. (1854). Monograph of the genus *Cryptocerus*, belonging to the group Cryptoceridae-Family Myrmicidae-Division Hymenoptera Heterogyna. *Trans. R. Entomol. Soc. Lond.* **7**: 213–228 pls 19–21 [224] [redefined in Bolton, B. (1981). A revision of the ant genera *Meranoplus* F. Smith, *Dicroaspis* Emery and *Calyptomymex* Emery (Hymenoptera : Formicidae) in the Ethiopian zoogeographic region. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **42**: 43–81 (26 Feb. 1981)]. Type species *Cryptocerus bicolor* Guérin, 1845 by subsequent designation, see Bingham, C.T. (1903). *The Fauna of British India, including Ceylon and Burma*. Hymenoptera. Vol. 2 Ants and cuckoo-wasps. London : Taylor & Francis [116].

This group is also found in the Ethiopian, Malagasy and Oriental regions; New Guinea, east Melanesia and New Caledonia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Meranoplus aureolus* Crawley, 1921*****Meranoplus aureolus aureolus* Crawley, 1921**

***Meranoplus aureolus*** Crawley, W.C. (1921). New and little-known species of ants from various localities. *Ann. Mag. Nat. Hist. (9)* **7**: 87–97 [91]. Type data: syntypes (probable), possibly OUM, from Koolpinyah, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus aureolus doddi* Santschi, 1928**

***Meranoplus aureolus doddi*** Santschi, F. (1928). Nouvelles fourmis d'Australie. *Bull. Soc. Vaud. Sci. Nat.* **56**: 465–483 [30 Aug. 1928] [469]. Type data: syntypes, BNHM W, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus aureolus liniae* Santschi, 1928**

***Meranoplus aureolus liniae*** Santschi, F. (1928). Nouvelles fourmis d'Australie. *Bull. Soc. Vaud. Sci. Nat.* **56**: 465–483 [30 Aug. 1928] [469]. Type data: syntypes, BNHM W, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus barretti* Santschi, 1928**

***Meranoplus barretti*** Santschi, F. (1928). Nouvelles fourmis d'Australie. *Bull. Soc. Vaud. Sci. Nat.* **56**: 465–483 [30 Aug. 1928] [468]. Type data: syntypes, BNHM W, from Elsternwick, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus dichrous* Forel, 1907**

***Meranoplus dichrous*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [274]. Type data: holotype, probably destroyed in ZMH in WW II, from Yalgoo, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus dimidiatus* F. Smith, 1867**

***Meranoplus dimidiatus*** Smith, F. (1867). Descriptions of new species of Cryptoceridae. *Trans. R. Entomol. Soc. Lond.* **15**: 523–528 [527 pl 26]. Type data: holotype (probable), BMNH \*W, from Champion Bay, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus diversus*** F. Smith, 1867

***Meranoplus diversus diversus*** F. Smith, 1867

***Meranoplus diversus*** Smith, F. (1867). Descriptions of new species of Cryptoceridae. *Trans. R. Entomol. Soc. Lond.* **15**: 523–528 [527 pl 26]. Type data: holotype (probable), BMNH \*W, from Champion Bay, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, nocturnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus diversus duyfkeni*** Forel, 1915

***Meranoplus diversus duyfkeni*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [45]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Kimberley distr., W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, nocturnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus diversus oxleyi*** Forel, 1915

***Meranoplus diversus oxleyi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [45]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Kimberley distr., W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, nocturnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus diversus unicolor*** Forel, 1902

***Meranoplus diversus unicolor*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [455]. Type data: syntypes, GMNH W, ANIC W, from King's Sound (?=King Sound), W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, nocturnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus excavatus*** Clark, 1938

***Meranoplus excavatus*** Clark, J. (1938). Reports of the McCoy Society for Field Investigation and Research. No. 2. Sir Joseph Bank Islands. Part I. Formicidae (Hymenoptera). *Proc. R. Soc. Vict.* **50**: 356–382 [367]. Type data: syntypes, NMV \*W, from Reevesby Is., S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, nocturnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus fenestratus*** F. Smith, 1867

***Meranoplus fenestratus*** Smith, F. (1867). Descriptions of new species of Cryptoceridae. *Trans. R. Entomol. Soc. Lond.* **15**: 523–528 [526 pl 26]. Type data: holotype (probable), BMNH \*W, from Champion Bay, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, nocturnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus ferrugineus*** Crawley, 1922

***Meranoplus ferrugineus*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **9**: 427–448 [444]. Type data: syntypes, OUM \*W, from Serpentine River, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus froggatti*** Forel, 1913

***Meranoplus froggatti*** Forel, A. (1913). Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* **49**: 173–196 pl 2 [183]. Type data: syntypes, GMNH W, from Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, nocturnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus hilli*** Crawley, 1922

***Meranoplus hilli*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **9**: 427–448 [445]. Type data: syntypes (probable), OUM \*W, from Seaford, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, nocturnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus hirsutus*** Mayr, 1876

***Meranoplus hirsutus hirsutus*** Mayr, 1876

***Meranoplus hirsutus*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [112]. Type data: syntypes, NHMW W, from Gayndah, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, granivore, woodland, open forest, closed forest; nest in ground layer.

***Meranoplus hirsutus minor*** Forel, 1902

***Meranoplus hirsutus minor*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [457]. Type data: syntypes, GMNH W,F, ANIC W, from Sydney and Thornleigh, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus hirsutus rugosa*** Crawley, 1922

***Meranoplus hirsutus rugosa*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **9**: 427–448 [443]. Type data: syntypes (probable), OUM \*W, from Parkerville, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus hospes* Forel, 1910**

***Meranoplus hospes*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1-94 [48]. Type data: syntypes, GMNH W,M, from Howlong, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus mars* Forel, 1902**

***Meranoplus mars mars* Forel, 1902**

***Meranoplus mars*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405-548 [454]. Type data: syntypes, GMNH W, ANIC W, from Charters Towers, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore, woodland; nest in soil.

***Meranoplus mars ajax* Forel, 1915**

***Meranoplus mars ajax*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910-1913. 2. Ameisen. *Ark. Zool.* **9**: 1-119 pls 1-3 [4 Dec. 1915] [44]. Type data: holotype, SMNH \*W, from Kimberley distr., W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, granivore, desert, woodland, open forest; nest in soil.

***Meranoplus minimus* Crawley, 1922**

***Meranoplus minor*** Crawley, W.C. (1918). Some new Australian ants. *Entomol. Rec. J. Var.* **30**: 86-92 [89] [*non Meranoplus hirsutus minor* Forel, 1902]. Type data: syntypes, possibly OUM, from Koolpinyah, N.T.

***Meranoplus minimus*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **9**: 427-448 [445] [*nom. nov.* for *Meranoplus minor* Crawley, 1918].

***Meranoplus crawleyi*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 25-39 [27] [*nom. nov.* for *Meranoplus minor* Crawley, 1918].

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus mjobergi* Forel, 1915**

***Meranoplus mjobergi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910-1913. 2. Ameisen. *Ark. Zool.* **9**: 1-119 pls 1-3 [4 Dec. 1915] [46]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Noonkanbah, W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus oceanicus* F. Smith, 1862**

***Meranoplus oceanicus*** Smith, F. (1862). A list of the genera and species belonging to the family Cryptoceridae, with descriptions of new species; also a list of the species of the genus *Echinopla*. *Trans. R. Entomol. Soc. Lond.* **11**: 407-416 pls 12-13 [414]. Type data: holotype (probable), BMNH \*W, from Moreton Bay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus pubescens* (F. Smith, 1854)**

***Cryptocerus pubescens*** Smith, F. (1854). Monograph of the genus *Cryptocerus* belonging to the group Cryptoceridae - Family Myrmicidae - Division Hymenoptera Heterogyna. *Trans. R. Entomol. Soc. Lond.* **7**: 213-228 pls 19-21 [223]. Type data: syntypes (probable), BMNH \*F, from Adelaide, N.S.W. (*sic*).

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus puryi* Forel, 1902**

***Meranoplus puryi puryi* Forel, 1902**

***Meranoplus puryi*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405-548 [456]. Type data: syntypes, GMNH W, ANIC W, from Yarra distr., Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus puryi curvispina* Forel, 1910**

***Meranoplus puryi curvispina*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1-94 [47]. Type data: syntypes, GMNH W, ANIC W, from N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, granivore, woodland, open forest; nest in soil.

***Meranoplus similis* Viehmeyer, 1922**

***Meranoplus similis*** Viehmeyer, H. (1922). Neue Ameisen. *Arch. Naturg.* **88A**(7): 203-220 [208]. Type data: syntypes, ZMB \*W, ANIC W, from Killalpaninno (=Killalpaninna), S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, noctidiurnal, predator, granivore, desert, woodland; nest in soil.



***Meranoplus testudineus* McAreavey, 1956**

***Meranoplus testudineus*** McAreavey, J.J. (1956). A new species of the genus *Meranoplus*. *Mem. Qd. Mus.* **13**: 148–150 [26 Apr. 1956] [148]. Type data: holotype, QM T5319 \*W, from Port George the Fourth, W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, granivore, desert, woodland, open forest; nest in soil.

***Mesostruma* Brown, 1948**

***Mesostruma*** Brown, W.L. jr. (1948). A preliminary generic revision of the higher Dacetini (Hymenoptera : Formicidae). *Trans. Am. Entomol. Soc.* **74**: 101–129 [27 July 1948] [118]. Type species *Strumigenys (Epopostruma) turneri* Forel, 1895 by original designation.

***Mesostruma browni* Taylor, 1962**

***Mesostruma browni*** Taylor, R.W. (1962). New Australian dacetine ants of the genera *Mesostruma* Brown and *Codiomyrmex* Wheeler (Hymenoptera : Formicidae). *Breviora* **152**: 1–10 [15 Jan. 1962] [1]. Type data: holotype, ANIC W, from 2 mi E of Berry, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Mesostruma eccentrica* Taylor, 1973**

***Mesostruma eccentrica*** Taylor, R.W. (1973). Ants of the Australian genus *Mesostruma* Brown (Hymenoptera : Formicidae). *J. Aust. Entomol. Soc.* **12**: 24–38 [31]. Type data: holotype, ANIC Type no. 7513 W, from 14 km W of Balranald, N.S.W.

Distribution: S Gulfs, Murray-Darling basin, S.A., Vic., N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Mesostruma exolympica* Taylor, 1973**

***Mesostruma exolympica*** Taylor, R.W. (1973). Ants of the Australian genus *Mesostruma* Brown (Hymenoptera : Formicidae). *J. Aust. Entomol. Soc.* **12**: 24–38 [35]. Type data: holotype, ANIC Type no. 7515 W, from Mt. Ainslie, A.C.T.

Distribution: Murray-Darling basin, S Gulfs, S.A., A.C.T. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Mesostruma laevigata* Brown, 1952**

***Mesostruma laevigata*** Brown, W.L. jr. (1952). The dacetine ant genus *Mesostruma* Brown. *Trans. R. Soc. S. Aust.* **75**: 9–13 [12]. Type data: holotype, ANIC W, from Sea Lake, Vic.

Distribution: Murray-Darling basin, S Gulfs, N.S.W., S.A., Vic. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Mesostruma loweryi* Taylor, 1973**

***Mesostruma loweryi*** Taylor, R.W. (1973). Ants of the Australian genus *Mesostruma* Brown (Hymenoptera : Formicidae). *J. Aust. Entomol. Soc.* **12**: 24–38 [35]. Type data: holotype, ANIC Type no. 7514 W, from Willaston near Gawler, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Mesostruma turneri* (Forel, 1895)**

***Strumigenys (Epopostruma) turneri*** Forel, A. (1895). Nouvelles fourmis d'Australie, récoltée à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* **39**: 417–428 [424]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Metapone* Forel, 1911**

***Metapone*** Forel, A. (1911). Sur le genre *Metapone* n.g. nouveau groupe des Formicides et sur quelques autres formes nouvelles. *Rev. Suisse Zool.* **19**: 445–459 [447 pl 14]. Type species *Metapone greeni* Forel, 1911 by monotypy.

This group is also found in the Malagasy and Oriental regions; New Guinea in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Metapone leae* Wheeler, 1919**

***Metapone leae*** Wheeler, W.M. (1919). The ants of the genus *Metapone* Forel. *Ann. Entomol. Soc. Am.* **12**: 173–191 [21 Oct. 1919] [183]. Type data: syntypes, MCZ \*F, from Mt. Tambourine (=Tamborine Mt.), Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in soil.

***Metapone mjobergi* Forel, 1915**

***Metapone mjobergi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [36]. Type data: syntypes, GMNH W, other syntypes may exist, from Malanda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in soil.

***Metapone tillyardi* Wheeler, 1919**

***Metapone tillyardi*** Wheeler, W.M. (1919). The ants of the genus *Metapone* Forel. *Ann. Entomol. Soc. Am.* **12**: 173–191 [21 Oct. 1919] [187]. Type data: syntypes, MCZ \*W, from Dorrigo, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in soil.

***Metapone tricolor* McAreavey, 1949**

***Metapone tricolor*** McAreavey, J.J. (1949). Australian Formicidae. New genera and species. *Proc. Linn. Soc. N.S.W.* **74**: 1–25 [15 June 1949] [4]. Type data: holotype, ANIC F, from Nyngan, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Monomorium* Mayr, 1855**

***Monomorium*** Mayr, G.L. (1855). Formicina Austriaca. *Verh. Zool.-Bot. Ges. Wien* **5**: Abhand. 273–478 [452]. Type species *Monomorium minutum* Mayr, 1855 by monotypy.

***Mitara*** Emery, C. (1913). Études sur les Myrmicinae. *Ann. Soc. Entomol. Belg.* **57**: 250–262 [261] [proposed with subgeneric rank in *Monomorium* Mayr, 1855]. Type species *Monomorium laeve* Mayr, 1876 by original designation.

Synonymy that of Emery, C. (1922). Hymenoptera Fam. Formicidae subfam. Myrmicinae in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 174B Brussels pp. 95–206 [183]; Ettershank, G. (1966). A generic revision of the world Myrmicinae related to *Solenopsis* and *Pheidologeton* (Hymenoptera : Formicidae). *Aust. J. Zool.* **14**: 73–171 [82].

This group is also found in the north Neotropical, Nearctic, south Palearctic, Ethiopian, Malagasy and Oriental regions; widespread in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Monomorium australicum* Forel, 1907**

***Monomorium subcoecum australicum*** Forel, A. (1907). Formicides du Musée National Hongrois. *Ann. Hist.-Nat. Mus. Natl. Hung.* **5**: 1–42 [30 June 1907] [20]. Type data: syntypes (probable), probably in GMNH or MNH, from Mt. Victoria, Blue Mts., N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, open forest; nest in ground layer. Biological references: Ettershank, G. (1966). A generic revision of the world

Myrmicinae related to *Solenopsis* and *Pheidologeton* (Hymenoptera : Formicidae) *Aust. J. Zool.* **14**: 73–171 (raised to species).

***Monomorium broomense* Forel, 1915**

***Monomorium (Mitara) laeve broomense*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [74] [introduced as *leve*]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Broome, W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer. Biological references: Taylor, R.W. and Brown, D.R., this work, raised to species level.

***Monomorium donisthorpei* Crawley, 1915**

***Monomorium (Mitara) donisthorpei*** Crawley, W.C. (1915). Ants from north and central Australia, collected by G.F. Hill. Part I. *Ann. Mag. Nat. Hist. (8)* **15**: 130–136 [134]. Type data: syntypes (probable), BMNH \*W, from Darwin, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in ground layer.

***Monomorium fieldi* Forel, 1910**

***Monomorium (Martia) fieldi*** Forel, A. (1910). Formicides australiens regus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [30]. Type data: syntypes, GMNH W,M, ANIC W, from Tennant Creek, N.T.

Distribution: W plateau, Lake Eyre basin, S.A., Qld., N.T. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in ground layer.

***Monomorium fraterculus* Santschi, 1919**

***Monomorium fraterculus fraterculus*** Santschi, 1919

***Monomorium (Mitara) laeve fraterculus*** Santschi, F. (1919). Cinq notes myrmécologiques. *Bull. Soc. Vaud. Sci. Nat.* **52**: 325–350 [328]. Type data: syntypes, BNHM W, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer. Biological references: Santschi, F. (1928). Nouvelles fourmis d'Australie. *Bull. Soc. Vaud. Sci. Nat.* **56**: 465–483 (raised to species).

***Monomorium fraterculus barretti* Santschi, 1928**

***Monomorium (Lampromyrmex) fraterculus barretti*** Santschi, F. (1928). Nouvelles fourmis d'Australie. *Bull. Soc. Vaud. Sci. Nat.* **56**: 465–483 [30 Aug. 1928] [467]. Type data: syntypes, BNHM W, from Elsternwick, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in ground layer.

*Monomorium ilia* Forel, 1907

*Monomorium ilia ilia* Forel, 1907

*Monomorium (Martia) ilia* Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [277]. Type data: syntypes, GMNH W, ANIC W, from Day Dawn and Guildford, W.A.

Distribution: SW coastal, NW coastal, W.A. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in ground layer.

*Monomorium ilia lamingtonense* Forel, 1915

*Monomorium (Mitara) ilia lamingtonensis* Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [73]. Type data: syntypes, GMNH W,F, other syntypes may exist, from Glen Lamington, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, open forest, closed forest; nest in ground layer.

*Monomorium laeve* Mayr, 1876

*Monomorium laeve laeve* Mayr, 1876

*Monomorium laeve* Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [101]. Type data: syntypes, NHMW W, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in ground layer.

*Monomorium laeve nigrius* Forel, 1915

*Monomorium (Mitara) laeve nigrius* Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [74]. Type data: syntypes, GMNH W,F, ANIC W, other syntypes may exist, from Mt. Tambourine (=Tamborine Mt.), Cedar Creek and Alice River, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in ground layer.

*Monomorium micron* Crawley, 1925

*Monomorium micron* Crawley, W.C. (1925). New ants from Australia. II. *Ann. Mag. Nat. Hist.* (9) 16: 577–598 [593]. Type data: syntypes, OUM \*W,F, from W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in ground layer.

*Monomorium sydneyense* Forel, 1902

*Monomorium sydneyense sydneyense* Forel, 1902

*Monomorium sydneyense* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [442]. Type data: syntypes, GMNH W, ANIC W, from Sydney, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in soil.

*Monomorium sydneyense nigellum* Emery, 1914

*Monomorium (Mitara) sydneyense nigella* Emery, C. (1914). Formiche d'Australie e di Samoa raccolte dal Prof. Silvestri nel 1913. *Boll. Lab. Zool. Gen. Agr. R. Scuola Agric. Portici* 8: 179–186 [30 Jan. 1914] [184]. Type data: syntypes (probable), MCG \*W, from Loftus, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, predator, woodland, open forest; nest in soil.

*Myrmecina* Curtis, 1829

*Myrmecina* Curtis, J. (1829). *British Entomology*; or illustrations and descriptions of the genera of insects found in Great Britain and Ireland, etc. London Vol. 6 [226]. Type species *Formica graminicola* Latreille, 1802 (as *Myrmecina latreillei* Curtis, 1829) by monotypy. Compiled from secondary source: Donisthorpe, H. (1943). A list of the type-species of the genera and subgenera of the Formicidae. *Ann. Mag. Nat. Hist.* (11) 10: 649–688.

This group is also found in the north Neotropical, south Nearctic, Palearctic and Oriental regions; New Guinea and east Melanesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

*Myrmecina rugosa* Forel, 1902

*Myrmecina rugosa* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [438]. Type data: syntypes, GMNH W,M, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, open forest, closed forest; nest in ground layer.

*Oligomyrmex* Mayr, 1867

*Oligomyrmex* Mayr, G.L. (1867). Adnotationes in Monographiam formicidarum Indo-Neerlandicarum. *Tijdschr. Entomol.* 10: 33–117 [110 pl 2]. Type species *Oligomyrmex concinnus* Mayr, 1867 by monotypy.



***Octella*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia. 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 [4 Dec. 1915] [69 pls 1–3] [proposed with subgeneric rank in *Oligomyrmex* Mayr, 1867]. Type species *Oligomyrmex (Octella) pachycerus* Forel, 1915 by monotypy.

Synonymy that of Ettershank, G. (1966). A generic revision of the world Myrmicinae related to *Solenopsis* and *Pheidologeton* (Hymenoptera : Formicidae). *Aust. J. Zool.* **14**: 73–171 [119].

This group is also found in the Neotropical, south Nearctic, south Palearctic, Ethiopian, Malagasy Oriental regions; New Guinea, east Melanesia, New Caledonia and southwest Polynesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Oligomyrmex corniger*** Forel, 1902

***Oligomyrmex corniger corniger*** Forel, 1902

***Oligomyrmex corniger*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [449]. Type data: syntypes, GMNH W,F,M, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore, open forest, closed forest; nest in ground layer.

***Oligomyrmex corniger parvicornis*** Forel, 1915

***Oligomyrmex corniger parvicornis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia. 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [70]. Type data: syntypes, GMNH W,M,F, ANIC W, other syntypes may exist, from Malanda, Herberton and Cedar Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore, open forest, closed forest; nest in ground layer.

***Oligomyrmex mjobergi*** Forel, 1915

***Oligomyrmex mjobergi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia. 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [69]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Malanda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore, open forest, closed forest; nest in ground layer.

***Oligomyrmex norfolkensis*** Donisthorpe, 1941

***Oligomyrmex manni norfolkensis*** Donisthorpe, H. (1941). The ants of Norfolk Island. *Entomol. Mon. Mag.* **77**: 90–93 [2 Apr. 1941] [92]. Type data: syntypes, BMNH \*W,F, from Norfolk Is.

Distribution: Norfolk Is. Ecology: terrestrial, noctidiurnal, predator, granivore, open forest; nest in ground layer. Biological references: Taylor, R.W. and Brown, D.R., this work, raised to species.

***Oligomyrmex pachycerus*** Forel, 1915

***Oligomyrmex (Octella) pachycerus*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia. 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [69]. Type data: holotype, SMNH \*W, from Cedar Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore, woodland, open forest; nest in ground layer.

***Orectognathus*** F. Smith, 1854

***Orectognathus*** Smith, F. (1854). Monograph of the genus *Cryptocerus*, belonging to the group Cryptoceridae-Family Myrmicidae-Division Hymenoptera Heterogyna. *Trans. R. Entomol. Soc. Lond.* **7**: 213–228 pls 19–21 [227]. Type species *Orectognathus antennatus* F. Smith, 1854 by monotypy.

This group is also found in New Guinea, New Zealand (North Island).

***Orectognathus alligator*** Taylor, 1980

***Orectognathus alligator*** Taylor, R.W. (1980). New Australian ants of the genus *Orectognathus*, with summary description of the twenty-nine known species (Hymenoptera : Formicidae). *Aust. J. Zool.* **27**: 773–788 [15 Feb. 1980] [778]. Type data: holotype, ANIC Type no. 7528 W, from Spencer Gap, 20 km SW of Walkerton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Orectognathus antennatus*** F. Smith, 1854

***Orectognathus antennatus*** Smith, F. (1854). Monograph of the genus *Cryptocerus* belonging to the group Cryptoceridae - Family Myrmicidae - Division Hymenoptera Heterogyna. *Trans. R. Entomol. Soc. Lond.* **7**: 213–228 pls 19–21 [228]. Type data: syntypes (probable), BMNH \*W, from New Zealand.

***Orectognathus antennatus septentrionalis*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [51]. Type data: holotype (probable), whereabouts unknown, from Wollongbar, Richmond River, N.S.W.

Synonymy that of Brown, W.L. jr. (1953). A revision of the dacetine ant genus *Orectognathus*. *Mem. Qd. Mus.* **13**: 84–104 [99].

Distribution: SE coastal, NE coastal, N.S.W., Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Orectognathus clarki* Brown, 1953**

***Orectognathus clarki*** Brown, W.L. jr. (1953). A revision of the dacetine ant genus *Orectognathus*. *Mem. Qd. Mus.* **13**: 84–104 [14 Dec. 1953] [94]. Type data: holotype, ANIC W, from Fern Tree Gully, Vic.

Distribution: SE coastal, NE coastal, Murray-Darling basin, S Gulfs, Qld., N.S.W., Tas., S.A., Vic. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in ground layer.

***Orectognathus coccinatus* Taylor, 1980**

***Orectognathus coccinatus*** Taylor, R.W. (1980). New Australian ants of the genus *Orectognathus*, with summary description of the twenty-nine known species (Hymenoptera : Formicidae). *Aust. J. Zool.* **27**: 773–788 [15 Feb. 1980] [779]. Type data: holotype, ANIC Type no. 7529 W, from Byfield, near Yeppoon, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Orectognathus darlingtoni* Taylor, 1977**

***Orectognathus darlingtoni*** Taylor, R.W. (1977). New ants of the Australasian genus *Orectognathus*, with a key to the known species (Hymenoptera : Formicidae). *Aust. J. Zool.* **25**: 581–612 [5 Aug. 1977] [606]. Type data: holotype, ANIC Type no. 7517 W, from Lake Eacham Natl. Park, near Yungaburra, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Orectognathus elegantulus* Taylor, 1977**

***Orectognathus elegantulus*** Taylor, R.W. (1977). New ants of the Australasian genus *Orectognathus*, with a key to the known species (Hymenoptera : Formicidae). *Aust. J. Zool.* **25**: 581–612 [5 Aug. 1977] [589]. Type data: holotype, ANIC Type no. 7504 W, from Lamington Natl. Park, Qld.

Distribution: NE coastal, SE coastal, N.S.W., Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Orectognathus howensis* Wheeler, 1927**

***Orectognathus antennatus howensis*** Wheeler, W.M. (1927). The ants of Lord Howe Island and Norfolk Island. *Proc. Am. Acad. Arts Sci.* **62**: 121–153 [145]. Type data: holotype, ANIC Type no. 7518 W, from Howe Is. (=Lord Howe Is.).

Distribution: Lord Howe Is. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer. Biological references: Brown, W.L. jr. (1953). A revision of the dacetine ant genus *Orectognathus*. *Mem. Qd. Mus.* **13**: 84–104 (raised to species).

***Orectognathus kanangra* Taylor, 1980**

***Orectognathus kanangra*** Taylor, R.W. (1980). New Australian ants of the genus *Orectognathus*, with summary description of the twenty-nine known species (Hymenoptera : Formicidae). *Aust. J. Zool.* **27**: 773–788 [15 Feb. 1980] [776]. Type data: holotype, ANIC Type no. 7527 W, from Gingra Range, near Kanangra Tops, N.S.W.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Orectognathus mjobergi* Forel, 1915**

***Orectognathus mjobergi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [38]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Cedar Creek, Qld.

***Orectognathus mjobergi unicolor*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [39]. Type data: holotype, whereabouts uncertain, from Malanda, Qld.

Synonymy that of Brown, W.L. jr. (1953). A revision of the dacetine ant genus *Orectognathus*. *Mem. Qd. Mus.* **13**: 84–104 [98].

Distribution: NE coastal, SE coastal, N.S.W., Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Orectognathus nanus* Taylor, 1977**

***Orectognathus nanus*** Taylor, R.W. (1977). New ants of the Australasian genus *Orectognathus*, with a key to the known species (Hymenoptera : Formicidae). *Aust. J. Zool.* **25**: 581–612 [5 Aug. 1977] [605]. Type data: holotype, ANIC Type no. 7509 W, from Seymour Range, about 5 km N of Innisfail, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Orectognathus nigriventris* Mercovich, 1958**

***Orectognathus nigriventris*** Mercovich, T.C. (1958). A new species of the genus *Orectognathus*. *Mem. Qd. Mus.* **13**: 195–198 [28 July 1958] [195]. Type data: holotype, QM \*W, from Dora Creek, Martinville, near Morisset, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, open forest; nest in ground layer.

***Orectognathus parvispinus* Taylor, 1977**

***Orectognathus parvispinus*** Taylor, R.W. (1977). New ants of the Australasian genus *Orectognathus*, with a key to the known species (Hymenoptera : Formicidae). *Aust. J. Zool.* **25**: 581–612 [5 Aug. 1977] [603]. Type data: holotype, ANIC Type no. 7508 W, from Eungella Natl. Park, about 3 km S of Eungella, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

***Orectognathus phyllobates* Brown, 1958**

***Orectognathus phyllobates*** Brown, W.L. jr. (1958). A supplement to the revisions of the dacetine ant genera *Orectognathus* and *Arnoldidris*, with keys to the species. *Psyche Camb.* **64**: 17–29 [10 Jan. 1958] [25]. Type data: holotype, MCZ \*W, from Joalah Natl. Park, near the top of Tamborine Mt., Qld.

Distribution: NE coastal, SE coastal, N.S.W., Qld. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

***Orectognathus robustus* Taylor, 1977**

***Orectognathus robustus*** Taylor, R.W. (1977). New ants of the Australasian genus *Orectognathus*, with a key to the known species (Hymenoptera : Formicidae). *Aust. J. Zool.* **25**: 581–612 [5 Aug. 1977] [599]. Type data: holotype, ANIC Type no. 7507 W, from Lake Eacham Natl. Park near Yungaburra, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

***Orectognathus rostratus* Lowery, 1967**

***Orectognathus rostratus*** Lowery, B.B. (1967). A new ant of the dacetine genus *Orectognathus* (Hymenoptera : Formicidae). *J. Aust. Entomol. Soc.* **6**: 137–140 [31 Dec. 1967] [137]. Type data: holotype, ANIC Type no. 7501 W, from Karrumbryn Creek (=Breakfast Creek), Mt. Warning State Park, 10 mi W of Murwillumbah, N.S.W.

Distribution: SE coastal, NE coastal, Qld., N.S.W. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

***Orectognathus satan* Brown, 1953**

***Orectognathus satan*** Brown, W.L. jr. (1953). A revision of the dacetine ant genus *Orectognathus*. *Mem. Qd. Mus.* **13**: 84–104 [14 Dec. 1953] [102]. Type data: holotype, MCZ \*W, from Malanda Falls, Malanda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

***Orectognathus sexspinosus* Forel, 1915**

***Orectognathus sexspinosus*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [39]. Type data: syntypes, GMNH W,M, ANIC W, other syntypes may exist, from Cedar Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

***Orectognathus versicolor* Donisthorpe, 1940**

***Orectognathus versicolor*** Donisthorpe, H. (1940). Descriptions of new species of ants (Hym., Formicidae) from various localities. *Ann. Mag. Nat. Hist. (11)* **5**: 39–48 [46]. Type data: holotype, BMNH \*W, from Tambourine (=Tamborine) Mt., Qld.

Distribution: NE coastal, SE coastal, N.S.W., Qld. Ecology: terrestrial, nocturnal, predator, open forest, closed forest; nest in ground layer.

***Peronomyrmex* Viehmeyer, 1922**

***Peronomyrmex*** Viehmeyer, H. (1922). Neue Ameisen. *Arch. Naturg.* **88A**(7): 203–220 [212]. Type species *Peronomyrmex overbecki* Viehmeyer, 1922 by monotypy.

***Peronomyrmex overbecki* Viehmeyer, 1922**

***Peronomyrmex overbecki*** Viehmeyer, H. (1922). Neue Ameisen. *Arch. Naturg.* **88A**(7): 203–220 [213]. Type data: holotype, ZMB W, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, diurnal, predator, (closed forest); (nest arboreal). Biological references: Taylor, R.W. (1970). Characterization of the Australian endemic ant genus *Peronomyrmex* Viehmeyer (Hymenoptera : Formicidae). *J. Aust. Entomol. Soc.* **9**: 209–211 (systematics).

***Pheidole* Westwood, 1841**

***Pheidole*** Westwood, J.O. (1841). Observations on the genus *Typhlopone*, with descriptions of several exotic species of ants. *Ann. Mag. Nat. Hist. (1)* **6**: 81–89 [87 pl 2]. Type species *Atta providens* Sykes, 1835 by monotypy.

This group is found world-wide, no native species in New Zealand, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Pheidole ampla* Forel, 1893**

***Pheidole ampla ampla* Forel, 1893**

***Pheidole variabilis ampla*** Forel, A. (1893). Nouvelles fourmis d'Australie et des Canaries. *Ann. Soc. Entomol. Belg.* **37**: 454–466 [462]. Type data: syntypes, GMNH W, from East Wallaby Is., W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer. Biological references: Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 (raised to species).



***Pheidole ampla mackayensis* Forel, 1902**

***Pheidole ampla mackayensis*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [436]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole ampla parviceps* Forel, 1915**

***Pheidole ampla parviceps*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [57]. Type data: holotype, SMNH \*W, from Herberton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole ampla perthensis* Crawley, 1922**

***Pheidole ampla perthensis*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **10**: 16–36 [24]. Type data: syntypes, OUM \*W,F, from Perth, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole anthracina* Forel, 1902*****Pheidole anthracina anthracina* Forel, 1902**

***Pheidole anthracina*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [419]. Type data: syntypes, GMNH W,F, ANIC W, from The Ridge, Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole anthracina grandii* Emery, 1914**

***Pheidole anthracina grandii*** Emery, C. (1914). Formiche d'Australie e di Samoa raccolte dal Prof. Silvestri nel 1913. *Boll. Lab. Zool. Gen. Agr. R. Scuola Agric. Portici* **8**: 179–186 [30 Jan. 1914] [183]. Type data: syntypes, MCG \*W, from Gosford, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole anthracina orba* Forel, 1902**

***Pheidole anthracina orba*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [421]. Type data: syntypes, GMNH W,F, ANIC W, from Wollongbar, Richmond River, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole athertonensis* Forel, 1915*****Pheidole athertonensis athertonensis* Forel, 1915**

***Pheidole athertonensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [62]. Type data: syntypes, GMNH W,F, ANIC W, other syntypes may exist, from Atherton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole athertonensis cedarensis* Forel, 1915**

***Pheidole athertonensis cedarensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [64]. Type data: syntypes, GMNH W,M, ANIC W, other syntypes may exist, from Cedar Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole athertonensis tambourinensis* Forel, 1915**

***Pheidole athertonensis tambourinensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [65]. Type data: syntypes, GMNH W,M,F, other syntypes may exist, from Mt. Tambourine (=Tamborine Mt.), Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole bos* Forel, 1893*****Pheidole bos bos* Forel, 1893**

***Pheidole bos*** Forel, A. (1893). Nouvelles fourmis d'Australie et des Canaries. *Ann. Soc. Entomol. Belg.* **37**: 454–466 [463]. Type data: syntypes, GMNH W, from Fremantle, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole bos baucis* Forel, 1910**

***Pheidole bos baucis*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [37]. Type data: syntypes, GMNH W,F, ANIC W, from N.S.W.

Distribution: N.S.W. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole bos eubos* Forel, 1915**

***Pheidole bos eubos*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia

1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [62]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Cedar Creek, Atherton, Laura and Cape York, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole brevicornis*** Mayr, 1876

***Pheidole brevicornis*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [106]. Type data: syntypes, whereabouts unknown, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole cairnsiana*** Forel, 1902

***Pheidole javana cairnsiana*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [438]. Type data: syntypes, GMNH (probable) \*W, from Cairns, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer. Biological references: Taylor, R.W. and Brown, D.R., this work, raised to species.

***Pheidole concentrica*** Forel, 1902

***Pheidole concentrica concentrica*** Forel, 1902

***Pheidole concentrica*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [416]. Type data: syntypes, GMNH W, ANIC W, from N.S.W.

Distribution: N.S.W. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole concentrica recurva*** Forel, 1910

***Pheidole concentrica recurva*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [39]. Type data: syntypes, GMNH W,F,M, from Launceston, Tas.

Distribution: Tas. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole conficta*** Forel, 1902

***Pheidole conficta*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [417]. Type data: syntypes, GMNH W, ANIC W, from N.S.W.

Distribution: N.S.W. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole deserticola*** Forel, 1910

***Pheidole deserticola deserticola*** Forel, 1910

***Pheidole deserticola*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [34]. Type data: syntypes, GMNH W,F, ANIC W, from Tennant Creek, N.T.

Distribution: W plateau, N.T. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole deserticola foveifrons*** Viehmeyer, 1924

***Pheidole deserticola foveifrons*** Viehmeyer, H. (1924). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **13**: 310–319 [312]. Type data: syntypes, ZMB \*W, from Killalpanino (=Killalpaninna), S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole gellibrandi*** Clark, 1934

***Pheidole gellibrandi*** Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* **8**: 48–73 [58 pl 4]. Type data: syntypes, NMV \*W, from Gellibrand, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole hartmeyeri*** Forel, 1907

***Pheidole hartmeyeri*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [280]. Type data: syntypes, GMNH W, ANIC W, from Buckland Hill near Fremantle and Broome Hill, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole impressiceps*** Mayr, 1876

***Pheidole impressiceps*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [105]. Type data: syntypes, NHMW W, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole incurvata*** Viehmeyer, 1924

***Pheidole incurvata*** Viehmeyer, H. (1924). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **13**: 310–319 [313]. Type data: syntypes, ZMB \*W, from Liverpool, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole liteae* Forel, 1910**

***Pheidole liteae*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [41]. Type data: syntypes, GMNH W, ANIC W, from Tas.

Distribution: Tas. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole longiceps* Mayr, 1876*****Pheidole longiceps longiceps* Mayr, 1876**

***Pheidole longiceps*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [106]. Type data: syntypes, NHMW W, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole longiceps doddi* Forel, 1910**

***Pheidole longiceps doddi*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [38]. Type data: syntypes, GMNH W,F, ANIC W, from Bunderbury, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole longiceps frontalis* Forel, 1902**

***Pheidole longiceps frontalis*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [436]. Type data: syntypes, GMNH W,F, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole mjobergi* Forel, 1915**

***Pheidole (Pheidolacanthinus) mjobergi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [66]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Kimberley distr., W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole opaciventris* Mayr, 1876**

***Pheidole opaciventris*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [105]. Type data: syntypes, NHMW W, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole platypus* Crawley, 1915**

***Pheidole platypus*** Crawley, W.C. (1915). Ants from north and south-west Australia (G.F. Hill, Rowland Turner) and Christmas Island, Straits Settlements. Part II. *Ann. Mag. Nat. Hist.* (8) **15**: 232–239 [234]. Type data: syntypes, BMNH \*W, from Stapleton, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole proxima* Mayr, 1876*****Pheidole proxima proxima* Mayr, 1876**

***Pheidole proxima*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [104]. Type data: syntypes, NHMW W, from Peak Downs, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole proxima bombalensis* Forel, 1910**

***Pheidole proxima bombalensis*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [43]. Type data: syntypes, GMNH W, ANIC W, from Bombala, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole proxima transversa* Forel, 1902**

***Pheidole proxima transversa*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [428]. Type data: syntypes, GMNH W,F,M, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole pyriformis* Clark, 1938**

***Pheidole pyriformis*** Clark, J. (1938). Reports of the McCoy Society for Field Investigation and Research. No. 2. Sir Joseph Bank Islands. Part I. Formicidae (Hymenoptera). *Proc. R. Soc. Vict.* **50**: 356–382 [371]. Type data: syntypes, NMV \*W, from Reevesby Is., Winceby Is. and English Is., S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole spinoda* (F. Smith, 1858)**

***Atta spinoda*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London: British Museum 216 pp. 14 pls [27 Mar. 1858] [166]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago,



with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*F, from Adelaide, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole tasmaniensis* Mayr, 1866**

***Pheidole tasmaniensis tasmaniensis* Mayr, 1866**

***Pheidole tasmaniensis* Mayr, G.L. (1866).** Myrmecologische Beiträge. *Sber. Akad. Wiss. Wien* 53(1): 484–517 [511]. Type data: syntypes, NHMW \*W, from Tas.

Distribution: Tas. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole tasmaniensis continentis* Forel, 1902**

***Pheidole tasmaniensis continentis* Forel, A. (1902).** Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [437]. Type data: syntypes, GMNH W,F, ANIC W, from Ballarat, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole trapezoidea* Viehmeyer, 1913**

***Pheidole trapezoidea* Viehmeyer, H. (1913).** Neue und unvollständig bekannte Ameisen der Alten Welt. *Arch. Naturg.* 79A(12): 24–60 [36]. Type data: syntypes (probable), ZMB \*W, from Killalpaninna, S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole turneri* Forel, 1902**

***Pheidole turneri* Forel, A. (1902).** Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [430]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole variabilis* Mayr, 1876**

***Pheidole variabilis variabilis* Mayr, 1876**

***Pheidole variabilis* Mayr, G.L. (1876).** Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [103]. Type data: syntypes, NHMW W,F,M, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole variabilis latigena* Forel, 1907**

***Pheidole variabilis latigena* Forel, A. (1907).** Formicidae. pp. 263–310 in Michaelsen, W. &

Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [279]. Type data: syntypes, GMNH W, from Day Dawn, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole variabilis mediofusca* Forel, 1902**

***Pheidole variabilis mediofusca* Forel, A. (1902).** Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [425]. Type data: syntypes, GMNH W, ANIC W, from Wollongbar, Richmond River, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole variabilis ocior* Forel, 1915**

***Pheidole variabilis ocior* Forel, A. (1915).** Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [58]. Type data: syntypes, GMNH W, other syntypes may exist, from Malanda and Tolga, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole variabilis ocyma* Forel, 1915**

***Pheidole variabilis ocyma* Forel, A. (1915).** Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [59]. Type data: syntypes, GMNH W,F, ANIC W, other syntypes may exist, from Christmas Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole variabilis parvispina* Forel, 1902**

***Pheidole variabilis parvispina* Forel, A. (1902).** Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [424]. Type data: syntypes, GMNH W,M, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole variabilis praedo* Forel, 1902**

***Pheidole variabilis praedo* Forel, A. (1902).** Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [426]. Type data: syntypes, GMNH W, ANIC W, from Wollongbar, Richmond River, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, predator, granivore; nest in ground layer.

***Pheidole variabilis redunca* Crawley, 1915**

***Pheidole variabilis redunca* Crawley, W.C. (1915).** Ants from north and south-west Australia (G.F. Hill, Rowland

Turner) and Christmas Island, Straits Settlements. Part II. *Ann. Mag. Nat. Hist. (8)* **15**: 232–239 [235]. Type data: syntypes, possibly OUM, from Darwin, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole variabilis rugociput* Forel, 1902**

***Pheidole variabilis rugociput*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [423]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole variabilis rugosula* Forel, 1902**

***Pheidole variabilis rugosula*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [423]. Type data: syntypes, GMNH W, ANIC W, from Bong Bong, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole vigilans* (F. Smith, 1858)**

***Atta vigilans*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [166]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist. (10)* **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Melbourne, Vic.

***Pheidole dolichocephala*** André, E. (1896). Fourmis nouvelles d'Asie et d'Australie. *Rev. Entomol.* **15**: 251–265 [262]. Type data: syntypes, MNHP W, from W.A.

***Pheidole ampla yarrensensis*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [434]. Type data: syntypes, GMNH W,F, from Yarra distr., Vic.

***Pheidole ampla parallela*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [435]. Type data: syntypes, GMNH W,M, ANIC W, from N.S.W.

***Pheidole ampla norfolkensis*** Wheeler, W.M. (1927). The ants of Lord Howe Island and Norfolk Island. *Proc. Am. Acad. Arts Sci.* **62**: 121–153 [134]. Type data: syntypes, MCZ \*W, from Norfolk Is.

Synonymy that of Brown, W.L. jr. (1971). The identity and synonymy of *Pheidole vigilans* a common ant of Southeastern Australia (Hymenoptera : Formicidae). *Aust. J. Zool.* **10**: 13–14 [13].

Distribution: Murray-Darling basin, SE coastal, S Gulfs, N.S.W., Vic., S.A., Tas., Norfolk Is. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidole wiesei* Forel, 1910**

***Pheidole wiesei*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [40]. Type data: syntypes, GMNH W,F,M, ANIC W, from N.S.W.

Distribution: N.S.W. Ecology: terrestrial, noctidiurnal, predator, granivore; nest in ground layer.

***Pheidologeton* Mayr, 1862**

***Pheidologeton*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* **12**: Abhand. 649–776 pl 19 [750] [redefined in Ettershank, G. (1966). A generic revision of the world Myrmicinae related to *Solenopsis* and *Pheidologeton* (Hymenoptera : Formicidae). *Aust. J. Zool.* **14**: 73–171]. Type species *Oecodoma diversa* Jerdon, 1851 by subsequent designation, see Bingham, C.T. (1903). *The Fauna of British India, including Ceylon and Burma*. Hymenoptera. Vol. 2 Ants and cuckoo-wasps. London : Taylor & Francis [160].

This group is also found in the Ethiopian and Oriental regions; New Guinea and east Melanesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Pheidologeton australis* Forel, 1915**

***Pheidologeton australis australis* Forel, 1915**

***Pheidologeton affinis australis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [68]. Type data: syntypes, GMNH W, other syntypes may exist, from Cedar Creek, Herberton and Atherton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, open forest, closed forest; nest in ground layer. Biological references: Forel, A. (1918). Études myrmécologiques en 1917. *Bull. Soc. Vaud. Sci. Nat.* **51**: 717–727 (raised to species).

***Pheidologeton australis mjobergi* Forel, 1918**

***Pheidologeton australis mjobergi*** Forel, A. (1918). Études myrmécologiques en 1917. *Bull. Soc. Vaud. Sci. Nat.* **51**: 717–727 [5 Apr. 1918] [723]. Type data: syntypes, GMNH F, from Atherton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, nomadic, predator, open forest, closed forest; nest in ground layer.

***Podomyrma* F. Smith, 1859**

***Podomyrma* Smith, F. (1859).** Catalogue of hymenopterous insects collected by Mr. A.R. Wallace at the islands of Aru and Key. *J. Linn. Soc. Zool.* 3: 132–178 [1 Feb. 1859] [145]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type species *Podomyrma femorata* F. Smith, 1859 by subsequent designation, see Wheeler, W.M. (1911). A list of the type species of the genera and subgenera of Formicidae. *Ann. N.Y. Acad. Sci.* 21: 157–175 [17 Oct. 1911].

***Dacryon* Forel, A. (1895).** Nouvelles fourmis d'Australie, récoltées à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* 39: 417–428 [421]. Type species *Dacryon omniparens* Forel, 1895 by monotypy.

***Pseudopodomyrma* Crawley, W.C. (1925).** Formicidae. A new genus. *Entomol. Rec. J. Var.* 37: 40–41 [40]. Type species *Pseudopodomyrma clarki* Crawley, 1925 by monotypy.

Synonymy that of Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press [177].

This group is also found in New Guinea and east Melanesia in the Australian Region.

***Podomyrma abdominalis* Emery, 1887**

***Podomyrma abdominalis* Emery, C. (1887).** Cataloge delle Formiche esistenti nelle collezioni del Museo Civico di Genova, Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* (2) 5: 427–473 [459]. Type data: status unknown, ?MGB, from Ternate, Indonesia.

***Podomyrma abdominalis pulchra* Forel, 1901**

***Podomyrma abdominalis pulchra* Forel, A. (1901).** Formiciden des Naturhistorischen Museums zu Hamburg. Neue *Calyptomymex*-, *Dacryon*-, *Podomyrma*-, und *Echinopla*-Arten. *Mitt. Naturh. Mus. Hamb.* 18: 45–82 [54]. Type data: syntypes, GMNH W, ANIC W, from Cairns, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, open forest, closed forest; nest arboreal.

***Podomyrma adelaidae* (F. Smith, 1858)**

***Podomyrma adelaidae adelaidae* (F. Smith, 1858)**

***Myrmica adelaidae* Smith, F. (1858).** Catalogue of hymenopterous insects in the collection of the British Museum. Part 6. Formicidae. London : British Museum

216 pp. 14 pls [27 Mar. 1858] [128]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: holotype, BMNH \*W, from Adelaide, S.A.

***Podomyrma micans sericeiventris* Emery, C. (1898).** Descrizioni di formiche nuove Malesi e Australiane. Note sinonimiche. *Rec. Sess. Accad. Sci. Ist. Bologna (ns)* 2: 231–245 [235]. Type data: syntypes, MCG \*W,F, from unknown locality.

***Podomyrma bimaculata* Forel, A. (1901).** Formiciden des Naturhistorischen Museums zu Hamburg. Neue *Calyptomymex*-, *Dacryon*-, *Podomyrma*-, und *Echinopla*-Arten. *Mitt. Naturh. Mus. Hamb.* 18: 45–82 [57]. Type data: syntypes, GMNH W,F, ANIC W, from Kalgoorlie, W.A.

Synonymy that of Emery, C. (1922). Hymenoptera Fam. Formicidae subfam. Myrmicinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 174C pp. 207–397 [237].

Distribution: W plateau, S Gulfs, Murray-Darling basin, W.A., S.A., Vic., N.S.W. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma adelaidae brevidentata* Forel, 1915**

***Podomyrma bimaculata brevidentata* Forel, A. (1915).** Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [49]. Type data: syntypes, GMNH W, other syntypes may exist, from Kimberley distr., W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma adelaidae obscurior* Forel, 1915**

***Podomyrma bimaculata obscurior* Forel, A. (1915).** Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [50]. Type data: holotype, probably GMNH or SMNH, from Alice River, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma basalis* F. Smith, 1859**

***Podomyrma basalis* Smith, F. (1859).** Catalogue of hymenopterous insects collected by Mr A.R. Wallace at the islands of Aru and Key. *J. Linn. Soc. Zool.* 3: 132–178 [1 Feb. 1859] [147]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*W, from Aru IIs., Indonesia.



Distribution: N coastal, N Gulf, NE coastal, N.T., Qld.; also in New Guinea. Ecology: terrestrial, arboreal, noctidiurnal, predator, open forest, closed forest; nest arboreal.

***Podomyrma bispinosa* Forel, 1901**

***Podomyrma bispinosa*** Forel, A. (1901). Formiciden des Naturhistorischen Museums zu Hamburg. Neue *Calyptomyrmex*-, *Dacryon*-, *Podomyrma*-, und *Echinopla*-Arten. *Mitt. Naturh. Mus. Hamb.* **18**: 45–82 [56]. Type data: syntypes, GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma chasei* Forel, 1901**

***Podomyrma chasei*** Forel, A. (1901). Formiciden des Naturhistorischen Museums zu Hamburg. Neue *Calyptomyrmex*-, *Dacryon*-, *Podomyrma*-, und *Echinopla*-Arten. *Mitt. Naturh. Mus. Hamb.* **18**: 45–82 [58]. Type data: syntypes, GMNH W,M, ANIC W, from Perth, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma christae* (Forel, 1907)**

***Dacryon christae*** Forel, A. (1907). Formicides du Musée National Hongrois. *Ann. Hist.-Nat. Mus. Natl. Hung.* **5**: 1–42 [30 June 1907] [16]. Type data: syntypes (probable), probably in GMNH or MNH, from Sydney, Botany Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma clarki* (Crawley, 1925)**

***Pseudopodomyrma clarki*** Crawley, W.C. (1925). Formicidae. A new genus. *Entomol. Rec. J. Var.* **37**: 40–41 [40]. Type data: syntypes (probable), OUM \*W, from Swan River, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma convergens* Forel, 1895**

***Podomyrma convergens*** Forel, A. (1895). Nouvelles fourmis d'Australie, récoltée à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* **39**: 417–428 [427]. Type data: holotype, GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma delbruckii* Forel, 1901**

***Podomyrma delbruckii*** Forel, A. (1901). Formiciden des Naturhistorischen Museums zu Hamburg. Neue *Calyptomyrmex*-, *Dacryon*-, *Podomyrma*-, und *Echinopla*-Arten. *Mitt. Naturh. Mus. Hamb.* **18**: 45–82 [58]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma densestrigosa* Viehmeyer, 1924**

***Podomyrma densestrigosa densestrigosa*** Viehmeyer, 1924

***Podomyrma densestrigosa*** Viehmeyer, H. (1924). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **13**: 310–319 [316]. Type data: syntypes, ZMB \*W, from Liverpool, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma densestrigosa teres* Viehmeyer, 1924**

***Podomyrma densestrigosa teres*** Viehmeyer, H. (1924). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **13**: 310–319 [317]. Type data: syntypes, ZMB \*W, from Liverpool and Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma elongata* Forel, 1895**

***Podomyrma elongata*** Forel, A. (1895). Nouvelles fourmis d'Australie, récoltée à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* **39**: 417–428 [428]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

***Podomyrma parva*** Crawley, W.C. (1925). New ants from Australia. II. *Ann. Mag. Nat. Hist.* (9) **16**: 577–598 [592]. Type data: syntypes (probable), OUM \*W, from W.A.

Synonymy that of Brown, W.L. jr. (1953). Notes on Australian *Podomyrma* (Hymenoptera : Formicidae). *N. Qd. Nat.* **21**: 3.

Distribution: NE coastal, SW coastal, W.A., Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma femorata* F. Smith, 1859**

***Podomyrma femorata*** Smith, F. (1859). Catalogue of hymenopterous insects collected by Mr A.R. Wallace at the islands of Aru and Key. *J. Linn. Soc. Zool.* **3**: 132–178 [1 Feb. 1859] [145]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with

descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes, BMNH \*W,F, from Aru IIs., Indonesia.

Distribution: N coastal, N Gulf, NE coastal, W.A., N.T., Qld.; also in New Guinea. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma ferruginea* (Clark, 1934)**

*Dacryon ferruginea* Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* 8: 21–47 [37 pls 2–3]. Type data: syntypes, NMV \*W, from Bombala, N.S.W. and Canberra, A.C.T.

Distribution: SE coastal, Murray-Darling basin, N.S.W. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma formosa* (F. Smith, 1858)**

*Myrmica formosa* Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [128]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*W, from Adelaide, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma fortirugis* Viehmeyer, 1924**

*Podomyrma fortirugis* Viehmeyer, H. (1924). Formiciden der australischen Faunenregion. *Entomol. Mitt.* 13: 310–319 [315]. Type data: syntypes, ZMB \*W,F,M, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma gracilis* Emery, 1887**

*Podomyrma gracilis* Emery, C. (1887). Cataloge delle Formiche esistenti nelle collezioni del Museo Civico di Genova, Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* (2) 5: 427–473 [460]. Type data: status unknown, ?MCG, from Ramoi, New Guinea.

***Podomyrma gracilis nugenti* Forel, 1901**

*Podomyrma gracilis nugenti* Forel, A. (1901). Formiciden des Naturhistorischen Museums zu Hamburg. Neue *Calypatomyrmex*-, *Dacryon*-, *Podomyrma*-, und *Echinopla*-Arten. *Mitt. Naturh. Mus. Hamb.* 18: 45–82 [54]. Type data: syntypes, GMNH W, ANIC W, from Cairns, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma gratiosa* (F. Smith, 1858)**

*Myrmecina gratiosa* Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [133]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes, BMNH \*W,F, from Adelaide, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma grossestriata* Forel, 1915**

*Podomyrma elongata grossestriata* Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [50]. Type data: holotype, probably GMNH or SMNH, from Malanda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal. Biological references: Brown, W.L. jr. (1953). Notes on Australian *Podomyrma* (Hymenoptera : Formicidae). *N. Qd. Nat.* 21: 3 (raised to species).

***Podomyrma inermis* Mayr, 1876**

*Podomyrma inermis* Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [111]. Type data: syntypes (probable), whereabouts unknown, from Peak Downs, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma kitschneri* (Forel, 1915)**

*Dacryon kitschneri* Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [52]. Type data: syntypes, GMNH W, other syntypes may exist, from Cedar Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma kraepelini* Forel, 1901**

*Podomyrma kraepelini* Forel, A. (1901). Formiciden des Naturhistorischen Museums zu Hamburg. Neue *Calypatomyrmex*-, *Dacryon*-, *Podomyrma*-, und *Echinopla*-Arten. *Mitt. Naturh. Mus. Hamb.* 18: 45–82 [59]. Type data: holotype (probable), probably destroyed in ZMH in W.W. II, from Australia.

Distribution: (NE coastal), (Qld.). Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma laevis*** F. Smith, 1863

***Podomyrma laevis*** Smith, F. (1863). Catalogue of hymenopterous insects collected by Mr A.R. Wallace in the islands of Mysol, Ceram, Waigiu, Bouru and Timor. *J. Linn. Soc. Zool.* 7: 6–48 [4 Mar. 1863] [20]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*W, from Mysol, Indonesia.

Distribution: N coastal, N Gulf, NE coastal, N.T., Qld.; also in Papua New Guinea. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma lampros*** Viehmeyer, 1924

***Podomyrma lampros*** Viehmeyer, H. (1924). Formiciden der australischen Faunenregion. *Entomol. Mitt.* 13: 310–319 [317]. Type data: syntypes, ZMB \*W, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma libra*** (Forel, 1907)

***Dacryon liber*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [275]. Type data: holotype, probably destroyed in ZMH in WW II, from Eradu, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma macrophthalma*** Viehmeyer, 1925

***Podomyrma macrophthalma*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* 14: 25–39 [25]. Type data: holotype, ZMB \*W, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma marginata*** (McAreevey, 1949)

***Dacryon marginatus*** McAreevey, J.J. (1949). Australian Formicidae. New genera and species. *Proc. Linn. Soc. N.S.W.* 74: 1–25 [15 June 1949] [8]. Type data: holotype, ANIC W, from Nyngan, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma micans*** Mayr, 1876***Podomyrma micans micans*** Mayr, 1876

***Podomyrma micans*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [111]. Type data: syntypes, NHMW W, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma micans maculiventris*** Emery, 1887

***Podomyrma micans maculiventris*** Emery, C. (1887). Catalogo delle formiche esistenti nelle collezioni del Museo Civico di Genova. Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* (2) 5: 427–473 pls 1–2 [459]. Type data: syntypes, MCG \*W, from Somerset, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma mjobergi*** (Forel, 1915)

***Dacryon mjobergi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [51]. Type data: syntypes, GMNH W, other syntypes may exist, from Cedar Creek and Mt. Bellenden Ker, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma muckeli*** Forel, 1910

***Podomyrma muckeli*** Forel, A. (1910). Formicides australiens requs de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* 18: 1–94 [25]. Type data: holotype (probable), GMNH (probable) W, from Kuranda near Cairns, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma nitida*** (Clark, 1938)

***Dacryon nitida*** Clark, J. (1938). Reports of the McCoy Society for Field Investigation and Research. No. 2. Sir Joseph Bank Islands. Part I. Formicidae (Hymenoptera). *Proc. R. Soc. Vict.* 50: 356–382 [364]. Type data: syntypes, NMV \*W,F,M, from Reevesby Is., S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma novemdentata*** Forel, 1901

***Podomyrma novemdentata*** Forel, A. (1901). Formiciden des Naturhistorischen Museums zu Hamburg. Neue *Calyptomyrmex*-, *Dacryon*-, *Podomyrma*-, und



*Echinopla*-Arten. *Mitt. Naturh. Mus. Hamb.* **18**: 45–82 [55]. Type data: syntypes, GMNH W,F, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma nuda* Crawley, 1922**

*Podomyrma nuda* Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **9**: 427–448 [441]. Type data: holotype, OUM \*W, from Murray River, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma obscura* Stitz, 1911**

*Podomyrma obscura* Stitz, H. (1911). Australische Ameisen (Neu-Guinea und Salomons-Inseln, Festland, Neu-Seeland). *Sber. Ges. Naturf. Freunde Berl.* **1911**: 351–381 [362]. Type data: holotype, ZMB \*W, from Newcastle, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma octodentata* Forel, 1901**

*Podomyrma octodentata* Forel, A. (1901). Formiciden des Naturhistorischen Museums zu Hamburg. Neue *Calyptomyrmex*-, *Dacryon*-, *Podomyrma*-, und *Echinopla*-Arten. *Mitt. Naturh. Mus. Hamb.* **18**: 45–82 [54]. Type data: holotype (probable), GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma odae* Forel, 1910**

*Podomyrma odae* Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [23]. Type data: syntypes, GMNH W, ANIC W, from Kuranda near Cairns, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma omniparens* (Forel, 1895)**

*Dacryon omniparens* Forel, A. (1895). Nouvelles fourmis d'Australie, récoltée à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* **39**: 417–428 [421]. Type data: holotype, GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma overbecki* Viehmeyer, 1924**

***Podomyrma overbecki overbecki* Viehmeyer, 1924**

*Podomyrma overbecki* Viehmeyer, H. (1924). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **13**: 310–319 [318]. Type data: syntypes, ZMB \*W, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma overbecki varicolor* Viehmeyer, 1925**

*Podomyrma overbecki varicolor* Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 25–39 [25]. Type data: holotype, ZMB \*W, from Liverpool, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma rugosa* (Clark, 1934)**

*Lordomyrma rugosa* Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [38 pls 2–3]. Type data: syntypes, NMV \*W,F, from Ferntree Gully, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma striata* F. Smith, 1859**

*Podomyrma striata* Smith, F. (1859). Catalogue of hymenopterous insects collected by Mr A.R. Wallace at the islands of Aru and Key. *J. Linn. Soc. Zool.* **3**: 132–178 [1 Feb. 1859] [146]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Aru Is., Indonesia.

*Podomyrma castanea* Stitz, H. (1911). Australische Ameisen (Neu-Guinea und Salomons-Inseln, Festland, Neu-Seeland). *Sber. Ges. Naturf. Freunde Berl.* **1911**: 351–381 [358]. Type data: syntypes, ZMB \*W, from Cape York, Qld.

Synonymy that of Emery, C. (1922). Hymenoptera Fam. Formicidae subfam. Myrmicinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 174C pp. 207–397 [238].

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

***Podomyrma tricolor* Clark, 1934**

*Podomyrma tricolor* Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [36 pls 2–3]. Type data: syntypes, NMV \*W, from Claudie River, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, noctidiurnal, predator, woodland, open forest; nest arboreal.

*Podomyrma turneri* (Forel, 1901)

*Dacryon turneri* Forel, A. (1901). Formiciden des Naturhistorischen Museums zu Hamburg. Neue *Calypatomyrma*-, *Dacryon*-, *Podomyrma*-, und *Echinopla*-Arten. Mitt. Naturh. Mus. Hamb. 18: 45–82 [60]. Type data: syntypes, GMNH W,F, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, arboreal, nocturnal, predator, woodland, open forest; nest arboreal.

*Pristomyrma* Mayr, 1866

*Pristomyrma* Mayr, G.L. (1866). Diagnosen neuer und wenig gekannter Formiciden. Verh. Zool.-Bot. Ges. Wien 16: Abhand. 885–908 [903 pl 20]. Type species *Pristomyrma pungens* Mayr, 1866 by monotypy.

*Odontomyrma* André, E. (1905). Description d'un genre nouveau et de deux espèces nouvelles de fourmis d'Australie. Rev. Entomol. 24: 205–208 [207]. Type species *Odontomyrma quadridentatus* E. André, 1905 by monotypy.

Synonymy that of Bolton, B. (1981). A revision of six minor genera of Myrmicinae (Hymenoptera : Formicidae) in the Ethiopian zoogeographical region. Bull. Br. Mus. Nat. Hist. (Entomol.) 43: 245–307 [26 Nov. 1981] [282].

This group is also found in the Ethiopian, Malagasy and Oriental regions; New Guinea and east Melanesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

*Pristomyrma erythropygus* Taylor, 1968

*Pristomyrma erythropygus* Taylor, R.W. (1968). A supplement to the revision of Australian *Pristomyrma* species (Hymenoptera : Formicidae). J. Aust. Entomol. Soc. 7: 63–66 [30 June 1968] [65]. Type data: holotype, MCZ Type no. 31325 \*W, from Acacia Plateau, near Old Koreelah, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, predator, closed forest; nest in soil.

*Pristomyrma foveolatus* Taylor, 1965

*Pristomyrma foveolatus* Taylor, R.W. (1965). The Australian ants of the genus *Pristomyrma*, with a case of apparent character displacement. Psyche Camb. 72: 35–54 [26 June 1965] [38]. Type data: holotype, MCZ Type no. 31152 \*W, from Clump Point W of Tully, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

*Pristomyrma quadridentatus* (E. André, 1905)

*Odontomyrma quadridentatus* André, E. (1905). Description d'un genre nouveau et de deux espèces nouvelles de fourmis d'Australie. Rev. Entomol. 24: 205–208 [208]. Type data: lectotype, MNHP W, from Sydney, N.S.W., designation by Taylor, R.W. (1965). The Australian ants of the genus *Pristomyrma*, with a case of apparent character displacement. Psyche Camb. 72: 35–54.

*Pristomyrma (Odontomyrma) quadridentatus queenslandensis* Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. Ark. Zool. 9: 1–119 pls 1–3 [4 Dec. 1915] [53]. Type data: syntypes, GMNH W, other syntypes may exist, from Mt. Tambourine (=Tamborine Mt.), Qld.

Synonymy that of Taylor, R.W. (1965). The Australian ants of the genus *Pristomyrma*, with a case of apparent character displacement. Psyche Camb. 72: 35–54 [42].

Distribution: NE coastal, SE coastal, Qld., N.S.W. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

*Pristomyrma thoracicus* Taylor, 1965

*Pristomyrma thoracicus* Taylor, R.W. (1965). The Australian ants of the genus *Pristomyrma*, with a case of apparent character displacement. Psyche Camb. 72: 35–54 [26 June 1965] [41]. Type data: holotype, MCZ Type no. 31153 \*W, from Vision Falls, Lake Eacham Natl. Park, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

*Pristomyrma wheeleri* Taylor, 1965

*Pristomyrma wheeleri* Taylor, R.W. (1965). The Australian ants of the genus *Pristomyrma*, with a case of apparent character displacement. Psyche Camb. 72: 35–54 [26 June 1965] [48]. Type data: holotype, MCZ Type no. 31154 \*W, from vicinity of Binna Burra, Qld.

Distribution: NE coastal, SE coastal, N.S.W., Qld. Ecology: terrestrial, nocturnal, predator, closed forest; nest in soil.

*Pristomyrma wilsoni* Taylor, 1968

*Pristomyrma wilsoni* Taylor, R.W. (1968). A supplement to the revision of Australian *Pristomyrma* species (Hymenoptera : Formicidae). J. Aust. Entomol. Soc. 7: 63–66 [30 June 1968] [63]. Type data: holotype, ANIC Type no. 7502 W, from Mt. Lewis near Julatten, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, predator, closed forest; nest in ground layer.

*Quadristruma* Brown, 1949

*Quadristruma* Brown, W.L. jr. (1949). Revision of the ant tribe Dacetini: 3. *Epitritus* Emery and *Quadristruma*

new genus (Hymenoptera : Formicidae). *Trans. Am. Entomol. Soc.* **75**: 43–51 [6 July 1949] [47]. Type species *Epitritus emmae* Emery, 1890 by original designation.

This group is also found in New Guinea, east Melanesia and parts of Polynesia.

***Quadristruma emmae* (Emery, 1890)**

*Epitritus emmae* Emery, C. (1890). Studi sulle formiche della fauna neotropica. *Boll. Soc. Entomol. Ital.* **22**: 38–80 pls 5–9 [70]. Type data: holotype, probably MCG \*W, from St. Thomas Is., Virgin Is.

Distribution: NW coastal, N coastal, N Gulf, NE coastal, W.A., N.T., Qld.; also in Africa, SE Asia, New Guinea, Micronesia and Polynesia, doubtfully native to Australia. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest, closed forest; nest in ground layer.

***Rhopalomastix* Forel, 1900**

*Rhopalomastix* Forel, A. (1900). Un nouveau genre et une nouvelle espèce de Myrmicide. *Ann. Soc. Entomol. Belg.* **44**: 24–26 [24]. Type species *Rhopalomastix rothneyi* Forel, 1900 by monotypy.

This group is also found in the Oriental Region; New Guinea in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Rhopalomastix rothneyi* Forel, 1900**

*Rhopalomastix rothneyi* Forel, A. (1900). Un nouveau genre et une nouvelle espèce de Myrmicide. *Ann. Soc. Entomol. Belg.* **44**: 24–26 [24]. Type data: holotype, probably GMNH \*F, from Barrackpore, India.

Distribution: NE coastal, Qld.; also in SE Asia and New Guinea, probably native to N Australia. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest arboreal.

***Rhopalothrix* Mayr, 1870**

*Rhopalothrix* Mayr, G.L. (1870) Formicidae Novogranadenses. *Sber. Akad. Wiss. Wien Abt. 1* **61**: 370–417 pl [415]. Type species *Rhopalothrix ciliata* Mayr, 1870 by subsequent designation, see Wheeler, W. M. (1911). A list of the type species of the genera and subgenera of Formicidae. *Ann. N.Y. Acad. Sci.* **21**: 157–175 [17 Oct. 1911].

This group is also found in the Neotropical Region; New Guinea in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest*

*ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Rhopalothrix orbis* Taylor, 1968**

*Rhopalothrix orbis* Taylor, R.W. (1968). Notes on the Indo-Australian basicerotine ants (Hymenoptera : Formicidae). *Aust. J. Zool.* **16**: 333–348 [336]. Type data: holotype, ANIC Type no. 7503 W, from Tamborine Mt., north side near Curtis Falls, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Rhoptromyrmex* Mayr, 1901**

*Rhoptromyrmex* Mayr, G.L. (1901). Südafrikanische Formiciden, gesammelt von Dr. Hans Brauns. *Ann. Natl. Mus. Wien* **16**: 1–30 [18 pls 1–2] [redefined in Bolton, B. (1976). The ant tribe Tetramoriini (Hymenoptera : Formicidae). Constituent genera, review of smaller genera and revision of *Triglyphothrix* Forel. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **34**: 283–379 (28 Oct. 1976)]. Type species *Rhoptromyrmex globulinodis* Mayr, 1901 by subsequent designation, see Wheeler, W.M. (1911). A list of the type species of the genera and subgenera of Formicidae. *Ann. N.Y. Acad. Sci.* **21**: 157–175 [17 Oct. 1911].

This group is also found in the Ethiopian and Oriental regions; New Guinea in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Rhoptromyrmex melleus* (Emery, 1897)**

*Tetramorium melleum* Emery, C. (1897). Formicidarum species novae vel minus cognitae in collectione Musaei Nationalis Hungarici, quas in Nova-Guinea, Colonia Germanica, collegit L. Biró. *Termész. Füzet.* **20**: 571–599 pls 14–15 [586]. Type data: holotype, HMN \*W, from Beliao Is. near Friedrich-Wilhelmshafen (=Madang), New Guinea.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Rhoptromyrmex wroughtonii* Forel, 1902**

*Rhoptromyrmex wroughtonii* Forel, A. (1902). Myrmicinae nouveaux de l'Inde et de Ceylan. *Rev. Suisse Zool.* **10**: 165–249 [231]. Type data: syntypes, GMNH \*W,M, from Kanara, India.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.



***Solenopsis* Westwood, 1841**

***Solenopsis*** Westwood, J.O. (1841). Observations on the genus *Typhlopone*, with descriptions of several exotic species of ants. *Ann. Mag. Nat. Hist.* (1) 6: 81–89 [86 pl 2] [redefined in Ettershank, G. (1966). A generic revision of the world Myrmicinae related to *Solenopsis* and *Pheidologeton* (Hymenoptera : Formicidae). *Aust. J. Zool.* 14: 73–171]. Type species *Atta geminata* Fabricius, 1804 (as *Solenopsis mandibularis* Westwood, 1841) by monotypy.

This group is also found in the Neotropical, Nearctic, Palearctic, Ethiopian and Oriental regions; widespread in the Australian Region except New Zealand, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Solenopsis belisaria* Forel, 1907**

***Solenopsis belisarius*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [278]. Type data: syntypes, GMNH W,M, from Northampton, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in soil.

***Solenopsis clarki* Crawley, 1922**

***Solenopsis clarki*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) 10: 16–36 [16]. Type data: syntypes, OUM \*W, from Byford, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Solenopsis froggatti* Forel, 1913**

***Solenopsis froggatti*** Forel, A. (1913). Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* 49: 173–196 pl 2 [187]. Type data: syntypes, GMNH W, from Hobart, Tas.

Distribution: Tas., SE coastal, Vic. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in soil.

***Solenopsis fusciventris* Clark, 1934**

***Solenopsis fusciventris*** Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* 8: 48–73 [62 pl 4]. Type data: syntypes, NMV \*W, from Gellibrand, Vic.

Distribution: SE coastal, Vic., N.S.W. Ecology: terrestrial, noctidiurnal, predator, open forest; nest in ground layer.

***Solenopsis insculpta* Clark, 1938**

***Solenopsis insculptus*** Clark, J. (1938). Reports of the McCoy Society for Field Investigation and Research. No. 2. Sir Joseph Bank Islands. Part I. Formicidae (Hymenoptera). *Proc. R. Soc. Vict.* 50: 356–382 [370]. Type data: syntypes, NMV \*W, from Reevesby Is., S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in soil.

***Strumigenys* F. Smith, 1860**

***Strumigenys*** Smith, F. (1860). Descriptions of new genera and species of exotic hymenoptera. *J. Entomol.* 1: 65–84 [72 pl 4] [redefined in Brown, W.L. jr. (1948). A preliminary generic revision of the higher Dacetini (Hymenoptera : Formicidae). *Trans. Am. Entomol. Soc.* 74: 101–129 (27 July 1948)]. Type species *Strumigenys mandibularis* F. Smith, 1860 by monotypy.

This group is also found in the Neotropical, south Nearctic, Ethiopian, Malagasy and Oriental regions; widespread in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Strumigenys emdeni* Forel, 1915**

***Strumigenys emdeni*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [41]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Atherton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Strumigenys ferocior* Brown, 1973**

***Strumigenys ferocior*** Brown, W.L. jr. (1973). The Indo-Australian species of the ant genus *Strumigenys*: groups of *horvathi*, *mayri* and *wallacei*. *Pac. Insects Monogr.* 15: 259–269 [20 July 1973] [266]. Type data: holotype, ANIC Type no. 7516 W, from Iron Range, Cape York Peninsula, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Strumigenys friedae* Forel, 1915**

***Strumigenys friedae*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [42]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Malanda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

*Strumigenys godeffroyi* Mayr, 1866

*Strumigenys godeffroyi* Mayr, G.L. (1866). Myrmecologische Beiträge. *Sber. Akad. Wiss. Wien* 53(1): 484–517 [516]. Type data: syntypes, NHMW \*W, from Upolu, Samoa.

Distribution: NE coastal, Qld.; also in SE Asia, Micronesia, Melanesia, and S Polynesia. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

*Strumigenys guttulata* Forel, 1902

*Strumigenys guttulata* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [458]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

*Strumigenys mayri* Emery, 1897

*Strumigenys mayri* Emery, C. (1897). Formicidarum species novae vel minus cognitae in collectione Musaei Nationalis Hungarici, quas in Nova-Guinea, Colonia Germanica, collegit L. Biró. *Termész. Füzet.* 20: 571–599 pls 14–15 [579]. Type data: syntypes, MCG \*W,F, MNH \*W,F, from Friedrich-Wilhelmshafen (=Madang), New Guinea, see Brown, W.L. jr. (1973). The Indo-Australian species of the ant genus *Strumigenys*: groups of *horvathi*, *mayri* and *wallacei*. *Pac. Insects Monogr.* 15: 259–269 [20 July 1973] [264].

Distribution: NE coastal, Qld.; also in Micronesia and New Guinea. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

*Strumigenys opaca* Brown, 1954

*Strumigenys opaca* Brown, W.L. jr. (1954). The Indo-Australian species of the ant genus *Strumigenys* Fr. Smith: *S. wallaci* Emery and relatives. *Psyche Camb.* 60: 85–89. [8 Jan. 1954] [86]. Type data: holotype, MCZ \*W, from Lankelly Creek in the McIlwraith Range, a few mi E of Coen, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

*Strumigenys perplexa* (F. Smith, 1876)

*Orectognathus perplexus* Smith, F. (1876). Descriptions of three new species of Hymenoptera (Formicidae) from New Zealand. *Trans. R. Entomol. Soc. Lond.* 24: 489–492 [491]. Type data: syntypes, BMNH \*W,F, from Tairua, near Mercury Bay, N.Z.

*Strumigenys leae* Forel, A. (1913). Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* 49: 173–196 pl 2 [182]. Type data: syntypes, GMNH W, from Tas.

Synonymy that of Brown, W.L. jr. (1958). A review of the ants of New Zealand (Hymenoptera). *Acta Hymen.* 1: 1–50 [38].

Distribution: S Gulfs, Murray-Darling basin, SE coastal, N.S.W., Vic., S.A., Tas.; also in New Zealand (N. Is.). Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

*Strumigenys quinquedentata* Crawley, 1923

*Strumigenys quinquedentata* Crawley, W.C. (1923). Myrmecological notes - new Australian Formicidae. *Entomol. Rec. J. Var.* 35: 177–179 [177]. Type data: syntypes, OUM \*W, from Manjimup, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

*Strumigenys szalay* Emery, 1897

*Strumigenys szalay* Emery, C. (1897). Formicidarum species novae vel minus cognitae in collectione Musaei Nationalis Hungarici, quas in Nova-Guinea, Colonia Germanica, collegit L. Biró. *Termész. Füzet.* 20: 571–599 pls 14–15 [578]. Type data: syntypes, probably MCG\* or MNH\*, from Seleo Is. near Berlinhafen (=Aitape), New Guinea, see Brown, W.L. jr. (1971). The Indo-Australian species of the ant genus *Strumigenys*: group of *szalay* (Hymenoptera : Formicidae). pp. 73–86 in, *Entomological Essays to Commemorate the Retirement of Professor K. Yasumatsu*. Tokyo : Hokuryukan.

*Strumigenys szalay australis* Forel, A. (1910). Formicides australiens reus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* 18: 1–94 [50]. Type data: syntypes, GMNH W,M, from Kuranda near Cairns, Qld.

Synonymy that of Brown, W.L. jr. (1971). The Indo-Australian species of the ant genus *Strumigenys*: group of *szalay* (Hymenoptera : Formicidae). pp. 73–86 in, *Entomological Essays to Commemorate the Retirement of Professor K. Yasumatsu*. Tokyo : Hokuryukan [75].

Distribution: NE coastal, Qld.; also in Phillipines, Micronesia, E Melanesia, and S Polynesia. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

*Strumigenys xenos* Brown, 1955

*Strumigenys xenos* Brown, W.L. jr. (1955). The first social parasite in the ant tribe Dacetini. *Insectes Soc.* 2: 181–186 [182]. Type data: holotype, MCZ \*F, from lower slopes of the Warburton Range, just above Warburton, Vic.

Distribution: SE coastal, Vic., N.S.W.; also in New Zealand (N. Is.). Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer, social parasite of other ants.

*Tetramorium* Mayr, 1855

*Tetramorium* Mayr, G.L. (1855). Formicina Austriaca. *Verh. Zool.-Bot. Ges. Wien* 5: Abhand. 273–478 [423] [redefined in Bolton, B. (1976). The ant tribe Tetramoriini (Hymenoptera : Formicidae). Constituent

genera, review of smaller genera and revision of *Triglyphothrix* Forel. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **34**: 283–379 [28 Oct. 1976]. Type species *Formica caespita* Linnaeus, 1758 by subsequent designation, see Girard, M. (1879). *Les Insectes. Traité élémentaire d'entomologie*, etc. Paris 3 vols [1016]. Compiled from secondary source: Wheeler, W.M. (1913). Corrections and additions to a "list of the type species of the genera and subgenera of Formicidae". *Ann. N.Y. Acad. Sci.* **23**: 77–83 [29 May 1913].

This group is also found in the Palearctic, Ethiopian, Malagasy and Oriental regions; New Guinea, east Melanesia, New Caledonia and parts of Polynesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Tetramorium andrynicum* Bolton, 1977**

***Tetramorium andrynicum*** Bolton, B. (1977). The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 [29 Sept. 1977] [142]. Type data: holotype, MCZ \*W, from west slope, Mt. Bartle Frere, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Tetramorium australe* Bolton, 1977**

***Tetramorium australe*** Bolton, B. (1977). The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 [29 Sept. 1977] [146]. Type data: holotype, MCZ \*W, from Tozer Gap, Cape York, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest; nest in ground layer.

***Tetramorium bicarinatum* (Nylander, 1846)**

***Myrmica bicarinata*** Nylander, W. (1846). Additamentum adnotationum in monographiam formicarum borealium Europae. *Acta Soc. Sci. Fenn.* **2**: 1041–1062 [1061]. Type data: syntypes, lost, from California, U.S.A. Compiled from secondary source: Bolton, B. (1977). The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 [29 Sept. 1977].

Distribution: SE coastal, NE coastal, SW coastal, N coastal, Qld., N.S.W., W.A., N.T.; introduced from overseas into many areas of eastern Qld., N.S.W., SW W.A. and N.T. Ecology: terrestrial, noctidiurnal, peridomestic, predator, desert, woodland, open forest, closed forest; nest in ground layer.

***Tetramorium capitale* (McAreavey, 1949)**

***Xiphomyrmex capitalis*** McAreavey, J.J. (1949). Australian Formicidae. New genera and species. *Proc. Linn. Soc. N.S.W.* **74**: 1–25 [15 June 1949] [6]. Type data: holotype, ANIC W, from Nyngan, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in ground layer.

***Tetramorium confusum* Bolton, 1977**

***Tetramorium confusum*** Bolton, B. (1977). The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 [29 Sept. 1977] [143]. Type data: holotype, CAS \*W, from Thegib (=The Gib) near Bowral, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, closed forest; nest in ground layer.

***Tetramorium deceptum* Bolton, 1977**

***Tetramorium deceptum*** Bolton, B. (1977). The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 [29 Sept. 1977] [146]. Type data: holotype, MCZ \*W, from Shipton's Flat, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Tetramorium fuscipes* (Viehmeyer, 1925)**

***Xiphomyrmex turneri fuscipes*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 25–39 [29]. Type data: syntypes, ZMB \*W, from Liverpool, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer. Biological references: Bolton, B. (1977). The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 (raised to species).



***Tetramorium impressum* (Viehmeier, 1925)**

***Xiphomyrmex impressus*** Viehmeier, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 25–39 [30]. Type data: holotype, ZMB \*W, from Liverpool, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Tetramorium laticephalum* Bolton, 1977**

***Tetramorium laticephalum*** Bolton, B. (1977). The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 [29 Sept. 1977] [139]. Type data: holotype, MCZ \*W, from Patho, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in ground layer.

***Tetramorium megalops* Bolton, 1977**

***Tetramorium megalops*** Bolton, B. (1977). The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 [29 Sept. 1977] [139]. Type data: holotype, MCZ \*W, from about 60 km NW of Balladonia, W.A.

Distribution: W plateau, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, closed forest; nest in ground layer.

***Tetramorium ornatum* Emery, 1897**

***Tetramorium ornatum*** Emery, C. (1897). Formicidarum species novae vel minus cognitae in collectione Musaei Nationalis Hungarici, quas in Nova-Guinea, Colonia Germanica, collegit L. Biró. *Termész. Füzet.* **20**: 571–599 pls 14–15 [585]. Type data: syntypes, GMNH \*W, from Berlinhafen (=Aitape), New Guinea.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer or arboreal.

***Tetramorium pacificum* Mayr, 1870**

***Tetramorium pacificum*** Mayr, G.L. (1870). Neue Formiciden. *Verh. Zool.-Bot. Ges. Wien* **20**: Abhand. 939–996 [31 Dec. 1870] [972,976]. Type data: syntypes, NHMW \*W,F, from Tongatabu, Tonga.

Distribution: N coastal, NE coastal, SE coastal, N.T., Qld., N.S.W., Lord Howe Is. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Tetramorium simillimum* (F. Smith, 1851)**

***Myrmica simillima*** Smith, F. (1851). *List of the specimens of British animals in the collection of the British Museum*. Hymenoptera Aculeata. London : British Museum Vol. 6 [118]. Type data: syntypes, lost,

presumed destroyed, from Dorset, England. Compiled from secondary source: Bolton, B. (1977). The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 [29 Sept. 1977].

***Tetramorium antipodum*** Wheeler, W.M. (1927). The ants of Lord Howe Island and Norfolk Island. *Proc. Am. Acad. Arts Sci.* **62**: 121–153 [143]. Type data: syntypes, whereabouts unknown, from Norfolk Is.

Synonymy that of Bolton, B. (1977). The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 [131].

Distribution: N coastal, NE coastal, SE coastal, N.T., Qld., N.S.W., Lord Howe Is. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

***Tetramorium sjostedti* Forel, 1915**

***Tetramorium (Xiphomyrmex) sjostedti*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [48]. Type data: lectotype, SMNH \*W, from Kimberley distr., W.A., designation by Bolton, B. (1977). The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 [140].

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in ground layer.

***Tetramorium spininode* Bolton, 1977**

***Tetramorium spininode*** Bolton, B. (1977). The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 [29 Sept. 1977] [140]. Type data: holotype, CAS \*W, from Winjana Gorge, W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland, closed forest; nest in ground layer.

***Tetramorium splendidior* (Viehmeier, 1925)**

***Xiphomyrmex striolatus splendidior*** Viehmeier, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 25–39 [29]. Type data: holotype, ZMB \*W, from Liverpool, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer. Biological references: Bolton, B. (1977). The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and

Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 (raised to species).

***Tetramorium strictum* Bolton, 1977**

***Tetramorium strictum* Bolton, B. (1977).** The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 [29 Sept. 1977] [144]. Type data: holotype, MCZ \*W, from Mt. Alexander (=Alexandra), NW of Daintree, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

***Tetramorium striolatum* Viehmeyer, 1913**

***Tetramorium (Xiphomyrmex) viehmeyeri striolatus* Viehmeyer, H. (1913).** Neue und unvollständig bekannte Ameisen der Alten Welt. *Arch. Naturg.* **79A**(12): 24–60 [39]. Type data: syntypes, ZMB \*W, from Killalpaninna, S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, noctidiurnal, predator, desert, woodland; nest in ground layer or arboreal. Biological references: Bolton, B. (1977). The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 (raised to species).

***Tetramorium thalidum* Bolton, 1977**

***Tetramorium thalidum* Bolton, B. (1977).** The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 [29 Sept. 1977] [141]. Type data: holotype, MCZ \*W, from Kuranda-Mareeba Rd., Davies Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator; nest in ground layer.

***Tetramorium turneri* Forel, 1902**

***Tetramorium (Xiphomyrmex) turneri* Forel, A. (1902).** Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [447]. Type data: syntypes, GMNH W,F, ANIC W, from Mackay, Qld.

Distribution: NE coastal, SE coastal, N.S.W., Qld. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer or arboreal.

***Tetramorium validiusculum* Emery, 1897**

***Tetramorium pacificum validiusculum* Emery, C. (1897).** Formicidarum species novae vel minus cognitae in collectione Musaei Nationalis Hungarici, quas in Nova-Guinea, Colonia Germanica, collegit L. Biró.

*Termész. Füz.* **20**: 571–599 pls 14–15 [585]. Type data: syntypes, GMNH \*W, from near Berlinhafen (=Aitape), New Guinea.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer. Biological references: Bolton, B. (1977). The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 (raised to species).

***Tetramorium viehmeyeri* Forel, 1907**

***Tetramorium (Xiphomyrmex) viehmeyeri* Forel, A. (1907).** Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [275]. Type data: holotype, probably destroyed in ZMH in WW II, from Day Dawn, W.A.

***Xiphomyrmex viehmeyeri venustus* Wheeler, W.M. (1934).** Contributions to the fauna of Rottnest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* **20**: 137–163 [5 Oct. 1934] [147]. Type data: holotype lost, paratypes MCZ, from near Government House, Rottnest Is., W.A.

Synonymy that of Bolton, B. (1977). The ant tribe Tetramoriini (Hymenoptera : Formicidae). The genus *Tetramorium* Mayr in the Oriental and Indo-Australian regions, and in Australia. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **36**: 67–151 [142].

Distribution: NW coastal, SW coastal, W.A. Ecology: terrestrial, noctidiurnal, predator, woodland, open forest; nest in ground layer.

***Triglyphothrix* Forel, 1890**

***Triglyphothrix* Forel, A. (1890).** *Aenictus-Typhlatta* découverte de M. Wroughton. Nouveaux genres de Formicides. *Ann. Soc. Entomol. Belg.* **34**: Bull. Compt.-Rend. Sci. 102–114 [106]. Type species *Triglyphothrix walshi* Forel, 1890 by monotypy.

This group is also found in the Ethiopian and Oriental regions; New Guinea, east Melanesia and parts of Polynesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Triglyphothrix lanuginosa* (Mayr, 1870)**

***Tetramorium lanuginosum* Mayr, G.L. (1870).** Neue Formiciden. *Verh. Zool.-Bot. Ges. Wien* **20**: Abhand., 939–996 [31 Dec. 1870] [972,976]. Type data: holotype, NHMW \*W, from Batavia (=Djakarta), Java.

***Triglyphothrix (Xiphomyrmex) striatidens australis*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [449]. Type data: syntypes, GMNH W,F, ANIC W, from Mackay, Qld.

Synonymy that of Bolton, B. (1976). The ant tribe Tetramoriini (Hymenoptera : Formicidae). Constituent genera, review of small genera and revision of *Triglyphothrix* Forel. *Bull. Br. Mus. Nat. Hist. (Entomol.)* **34**: 283–379 [28 Oct. 1976] [350].

Distribution: N coastal, NE coastal, Qld., N.T. Ecology: terrestrial, noctidiurnal, predator, open forest, closed forest; nest in ground layer.

#### ***Vollenhovia* Mayr, 1868**

***Vollenhovia*** Mayr, G.L. (1868). Formicidae. in, *Reise der österreichischen Fregatte Novara um die Erde in der Jahren 1857, 1858, 1859*. Zool. 2, Abth. IA3: 1–123 4 pls [21] [redefined in Ettershank, G. (1966). A generic revision of the world Myrmicinae related to *Solenopsis* and *Pheidologeton* (Hymenoptera : Formicidae). *Aust. J. Zool.* **14**: 73–171]. Type species *Vollenhovia punctatostriata* Mayr, 1868 by monotypy.

This group is also found in the Oriental Region; New Guinea, east Melanesia, New Caledonia and southwest Polynesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press; undescribed species are present in the Iron Range, Qld.

#### ***Vollenhovia oblonga* (F. Smith, 1860)**

***Myrmica oblonga*** Smith, F. (1860). Catalogue of hymenopterous insects collected by Mr A.R. Wallace in the islands of Bachian, Kaisaa, Amboyana, Gilolo, and at Dory in New Guinea. *J. Linn. Soc. Zool.* **5**: 93–143 pl 1 [18 July 1860] [107]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist. (10)* **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Bachian, Indonesia.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, closed forest; nest in ground layer.

## **DOLICHODERINAE**

### ***Bothriomyrmex* Emery, 1869**

***Bothriomyrmex*** Emery, C. (1869). Descrizione di una nuova Formica Italiana. *Annuaire R. Mus. Zool. R. Univ. Napoli* **5**: 117–118 [117]. Type species *Tapinoma meridionale* Roger, 1863 (as *Bothriomyrmex costae* Emery, 1869) by monotypy.

This group is also found in the south Palearctic and Oriental regions; New Guinea and east Melanesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

#### ***Bothriomyrmex flavus* Crawley, 1922**

***Bothriomyrmex flavus*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist. (9)* **10**: 16–36 [27]. Type data: syntypes, OUM \*W,F,M, from Mundaring Weir, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, open forest, closed forest; nest in ground layer.

#### ***Bothriomyrmex pusillus* (Mayr, 1876)**

#### ***Bothriomyrmex pusillus pusillus* (Mayr, 1876)**

***Tapinoma pusillum*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [83]. Type data: syntypes, NHMW \*W,F,M, from Rockhampton, Qld. and Sidney (=Sydney), N.S.W.

Distribution: NE coastal, SE coastal, Qld., N.S.W. Ecology: terrestrial, nocturnal, omnivore, open forest, closed forest; nest in ground layer.

#### ***Bothriomyrmex pusillus aequalis* Forel, 1902**

***Bothriomyrmex pusillus aequalis*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [476]. Type data: syntypes, GMNH W,F,M, from Bendigo, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, nocturnal, omnivore, open forest, closed forest; nest in ground layer.

#### ***Bothriomyrmex scissor* Crawley, 1922**

***Bothriomyrmex scissor*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist. (9)* **10**: 16–36 [29]. Type data: syntypes, OUM \*F, from Murray River, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, open forest, closed forest; nest in ground layer.

#### ***Bothriomyrmex wilsoni* Clark, 1934**

***Bothriomyrmex wilsoni*** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [39 pls 2–3]. Type data: syntypes, NMV \*W, from Port Lincoln, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, nocturnal, omnivore, open forest; nest in ground layer.



***Dolichoderus* Lund, 1831**

***Dolichoderus* Lund, M. (1831).** Lettre sur les habitudes de quelques fourmis de Bresil, adressée à M. Audouin. *Ann. Sci. Nat.* **23**: 113–138 [130]. Type species *Formica attelaboides* Fabricius, 1775 by monotypy.

***Acanthoclina* Wheeler, W.M. (1935).** Myrmecological notes. *Psyche Camb.* **42**: 68–72 [69] [proposed with subgeneric rank in *Dolichoderus* Lund, 1831]. Type species *Dolichoderus doriae* Emery, 1887 by original designation.

***Diceratoclina* Wheeler, W.M. (1935).** Myrmecological notes. *Psyche Camb.* **42**: 68–72 [69] [proposed with subgeneric rank in *Dolichoderus* Lund, 1831]. Type species *Dolichoderus scabridus* Roger, 1862 by original designation.

Synonymy that of Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press [177].

This group is also found in the Neotropical, Nearctic, Palearctic and Oriental regions; New Guinea and east Melanesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Dolichoderus angusticornis* Clark, 1930**

***Dolichoderus (Hypoclinea) angusticornis* Clark, J. (1930).** The Australian ants of the genus *Dolichoderus* (Formicidae). Subgenus *Hypoclinea* Mayr. *Aust. Zool.* **6**: 252–268 [20 Aug. 1930] [260]. Type data: syntypes, NMV \*W, from Burracoppin, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Dolichoderus armstrongi* McAreavey, 1949**

***Dolichoderus (Hypoclinea) armstrongi* McAreavey, J.J. (1949).** Australian Formicidae. New genera and species. *Proc. Linn. Soc. N.S.W.* **74**: 1–25 [15 June 1949] [17]. Type data: holotype, ANIC W, from Nyngan, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Dolichoderus australis* E. André, 1896**

***Dolichoderus australis* André, E. (1896).** Fourmis nouvelles d'Asie et d'Australie. *Rev. Entomol.* **15**: 251–265 [257]. Type data: syntypes, MNHP W, from Victorian Alps.

Distribution: Murray-Darling basin, A.C.T., N.S.W., Vic. Ecology: terrestrial, noctidiurnal, omnivore, alpine, woodland; nest in ground layer.

***Dolichoderus clarki* Wheeler, 1935**

***Dolichoderus (Hypoclinea) tristis* Clark, J. (1930).** The Australian ants of the genus *Dolichoderus* (Formicidae). Subgenus *Hypoclinea* Mayr. *Aust. Zool.* **6**: 252–268 [20 Aug. 1930] [254] [*non Dolichoderus (Monacis) tristis* Mann, 1916]. Type data: syntypes, NMV \*W, from Bondi and Cooma, N.S.W.

***Dolichoderus clarki* Wheeler, W.M. (1935).** Myrmecological notes. *Psyche Camb.* **42**: 68–72 [69] [*nom. nov.* for *Dolichoderus (Hypoclinea) tristis* Clark, 1930].

Distribution: SE coastal, Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Dolichoderus clusor* Forel, 1907**

***Dolichoderus clusor* Forel, A. (1907).** Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [285]. Type data: holotype, probably destroyed in ZMH in WW II, from Fremantle, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Dolichoderus dentatus* Forel, 1902**

***Dolichoderus doriae dentatus* Forel, A. (1902).** Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [462]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer. Biological references: Clark, J. (1930). The Australian ants of the genus *Dolichoderus* (Formicidae). Subgenus *Hypoclinea* Mayr. *Aust. Zool.* **6**: 252–268 [20 Aug. 1930] (raised to species).

***Dolichoderus doriae* Emery, 1887**

***Dolichoderus doriae* Emery, C. (1887).** Catalogo delle formiche esistenti nelle collezioni del Museo Civico di Genova. Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **25**: 209–258 pls 3–4 [253]. Type data: syntypes, MCG \*W, from Blue Mts. and Mt. Victoria, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Dolichoderus extensispinus* Forel, 1915**

***Dolichoderus doriae extensispinus* Forel, A. (1915).** Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark.*

*Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [76]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Blackall (=Blackall) Range, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer. Biological references: Clark, J. (1930). The Australian ants of the genus *Dolichoderus* (Formicidae). Subgenus *Hypoclinea* Mayr. *Aust. Zool.* **6**: 252–268 [20 Aug. 1930] (raised to species).

***Dolichoderus formosus* Clark, 1930**

*Dolichoderus* (*Hypoclinea*) *formosus* Clark, J. (1930). The Australian ants of the genus *Dolichoderus* (Formicidae). Subgenus *Hypoclinea* Mayr. *Aust. Zool.* **6**: 252–268 [20 Aug. 1930] [265]. Type data: syntypes, NMV \*W,F, from Armadale, Mundaring and Mt. Dale, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Dolichoderus glauerti* Wheeler, 1934**

*Dolichoderus* (*Hypoclinea*) *glauerti* Wheeler, W.M. (1934). Contributions to the fauna of Rottnest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* **20**: 137–163 [5 Oct. 1934] [147]. Type data: syntypes, MCZ \*W,M, from City of York Bay, Rottnest Is., W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Dolichoderus goudiei* Clark, 1930**

*Dolichoderus* (*Hypoclinea*) *goudiei* Clark, J. (1930). The Australian ants of the genus *Dolichoderus* (Formicidae). Subgenus *Hypoclinea* Mayr. *Aust. Zool.* **6**: 252–268 [20 Aug. 1930] [264]. Type data: syntypes, NMV \*W, from Maldon, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, nocturnal, omnivore, woodland; nest in ground layer.

***Dolichoderus nigricornis* Clark, 1930**

*Dolichoderus* (*Hypoclinea*) *nigricornis* Clark, J. (1930). The Australian ants of the genus *Dolichoderus* (Formicidae). Subgenus *Hypoclinea* Mayr. *Aust. Zool.* **6**: 252–268 [20 Aug. 1930] [265]. Type data: syntypes, NMV \*W, from Tammin, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, woodland; nest in ground layer.

***Dolichoderus occidentalis* Clark, 1930**

*Dolichoderus* (*Hypoclinea*) *occidentalis* Clark, J. (1930). The Australian ants of the genus *Dolichoderus*

(Formicidae). Subgenus *Hypoclinea* Mayr. *Aust. Zool.* **6**: 252–268 [20 Aug. 1930] [268]. Type data: syntypes, NMV \*W, from Albany, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, woodland; nest in ground layer.

***Dolichoderus parvus* Clark, 1930**

*Dolichoderus* (*Hypoclinea*) *parvus* Clark, J. (1930). The Australian ants of the genus *Dolichoderus* (Formicidae). Subgenus *Hypoclinea* Mayr. *Aust. Zool.* **6**: 252–268 [20 Aug. 1930] [263]. Type data: syntypes, NMV \*W, from Sea Lake, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, nocturnal, omnivore, woodland; nest in ground layer.

***Dolichoderus reflexus* Clark, 1930**

*Dolichoderus* (*Hypoclinea*) *reflexus* Clark, J. (1930). The Australian ants of the genus *Dolichoderus* (Formicidae). Subgenus *Hypoclinea* Mayr. *Aust. Zool.* **6**: 252–268 [20 Aug. 1930] [261]. Type data: syntypes, NMV \*W, from Murray Bridge and Mt. Lofty, S.A.

Distribution: Murray-Darling basin, S.A. Ecology: terrestrial, nocturnal, omnivore, woodland; nest in ground layer.

***Dolichoderus scabridus* Roger, 1862**

***Dolichoderus scabridus scabridus* Roger, 1862**

*Dolichoderus scabridus* Roger, J. (1862). Einige neue exotische Ameisen-Gattungen und Arten. *Berl. Entomol. Z.* **6**: 233–254 pl 1 [244]. Type data: syntypes, BMN (probable) \*W, from Australia.

*Polyrhachis foveolatus* Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* **2**: 331–336 [334]. Type data: syntypes (probable), BMNH (probable) \*W, from Sidney (=Sydney), N.S.W.

Synonymy that of Emery, C. (1912). Hymenoptera Fam. Formicidae subfam. Dolichoderinae in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 137 50 pp. 2 pls [13].

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Dolichoderus scabridus ruficornis* Santschi, 1916**

*Dolichoderus* (*Hypoclinea*) *scabridus ruficornis* Santschi, F. (1916). Deux nouvelles fourmis d'Australie. *Bull. Soc. Entomol. Fr.* **1916**: 174–175 [175]. Type data: syntypes, BNHM W, from Australia.

Distribution: S Gulfs, SE coastal, S.A., Vic. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Dolichoderus scrobiculatus*** (Mayr, 1876)

***Hypoclinea scrobiculata*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [80]. Type data: syntypes, NHMW \*W, from Peak Downs, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Dolichoderus turneri*** Forel, 1902

***Dolichoderus turneri*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [462]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Dolichoderus ypsilon*** Forel, 1902

***Dolichoderus ypsilon ypsilon*** Forel, 1902

***Dolichoderus scabridus ypsilon*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [461]. Type data: syntypes, GMNH W, ANIC W, from Perth, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer. Biological references: Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 (raised to species).

***Dolichoderus ypsilon nigra*** Crawley, 1922

***Dolichoderus (Hypoclinea) ypsilon nigra*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) 10: 16–36 [25]. Type data: syntypes (probable), OUM \*W, from Kelmscott, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Dolichoderus ypsilon rufotibialis*** Clark, 1930

***Dolichoderus (Hypoclinea) ypsilon rufotibialis*** Clark, J. (1930). The Australian ants of the genus *Dolichoderus* (Formicidae). Subgenus *Hypoclinea* Mayr. *Aust. Zool.* 6: 252–268 [20 Aug. 1930] [259]. Type data: syntypes, NMV \*W, from Albany, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Froggattella*** Forel, 1902

***Froggattella*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [459]. Type species *Acantholepis kirbii* Lowne, 1865 by original designation.

***Froggattella kirbii*** (Lowne, 1865)

***Froggattella kirbii kirbii*** (Lowne, 1865)

***Acantholepis kirbii*** Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* 2: 331–336 [333]. Type data: syntypes (probable), BMNH (probable) \*W, from Sidney (=Sydney), N.S.W.

***Dolichoderus kirbyi*** Dalla Torre, C.G. de (1893). *Catalogus hymenopterorum hucusque descriptorum systematicus et synonymicus*. Formicidae (Heterogyna). Lipsiae : G. Engelmann Vol. 7 [159] [invalid emend. of *Acantholepis kirbii* Lowne, 1865].

Distribution: SE coastal, SW coastal, W plateau, S Gulfs, Murray-Darling basin, NE coastal, W.A., S.A., Vic., Qld., N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Froggattella kirbii bispinosa*** Forel, 1902

***Froggattella kirbyi bispinosa*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [460]. Type data: syntypes, GMNH W, ANIC W, from Sydney and Oatley, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Froggattella kirbii ianthina*** Wheeler, 1936

***Froggattella kirbyi ianthina*** Wheeler, W.M. (1936). The Australian ant genus *Froggattella*. *Am. Mus. Novit.* 842: 1–11 [13 Apr. 1936] [8]. Type data: syntypes, MCZ \*W, from near Brisbane, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Froggattella kirbii laticeps*** Wheeler, 1936

***Froggattella kirbyi laticeps*** Wheeler, W.M. (1936). The Australian ant genus *Froggattella*. *Am. Mus. Novit.* 842: 1–11 [13 Apr. 1936] [10]. Type data: syntypes, MCZ \*W, from Lucindale, S.A.

Distribution: Murray-Darling basin, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Froggattella kirbii lutescens*** Wheeler, 1936

***Froggattella kirbyi lutescens*** Wheeler, W.M. (1936). The Australian ant genus *Froggattella*. *Am. Mus. Novit.* 842: 1–11 [13 Apr. 1936] [9]. Type data: syntypes, MCZ \*W, from near Sydney, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.



***Froggattella kirbii nigripes* Wheeler, 1936**

***Froggattella kirbyi nigripes*** Wheeler, W.M. (1936). The Australian ant genus *Froggattella*. *Am. Mus. Novit.* 842: 1–11 [13 Apr. 1936] [8]. Type data: syntypes, MCZ \*W, from Coen, Cape York Peninsula, Qld.

Distribution: N Gulf, Qld. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Froggattella latispina* Wheeler, 1936**

***Froggattella latispina*** Wheeler, W.M. (1936). The Australian ant genus *Froggattella*. *Am. Mus. Novit.* 842: 1–11 [13 Apr. 1936] [10]. Type data: syntypes, MCZ \*W, from Port Lincoln, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, predator, woodland; nest in ground layer.

***Iridomyrmex* Mayr, 1862**

***Iridomyrmex*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* 12: Abhand. 649–776 [702 pl 19]. Type species *Formica purpurea* F. Smith, 1858 (as *Formica detecta* F. Smith, 1858) by subsequent designation, see Bingham, C.T. (1903). *The Fauna of British India, including Ceylon and Burma*. Hymenoptera. Vol. 2 Ants and cuckoo-wasps. London: Taylor & Francis [297].

***Doleromyrma*** Forel, A. (1907). Formicides du Musée National Hongrois. *Ann. Hist.-Nat. Mus. Natl. Hung.* 5: 1–42 [30 June 1907] [28] [proposed with subgeneric rank in *Tapinoma* Förster, 1850]. Type species *Tapinoma (Doleromyrma) darwinianum* Forel, 1907 by original designation.

Synonymy that of Emery, C. (1912). Hymenoptera Fam. Formicidae subfam. Dolichoderinae in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 137 Brussels 50 pp. 2 pls [21].

This group is also found in the Neotropical, Nearctic and east Oriental regions; New Guinea, east Melanesia and New Caledonia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington: Smithsonian Institution Press.

***Iridomyrmex agilis* Forel, 1907**

***Iridomyrmex agilis*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena: G. Fischer Vol. 1 [295]. Type data: syntypes, GMNH W, ANIC W, from Yalgoo, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex albitarsus* Wheeler, 1927**

***Iridomyrmex albitarsus*** Wheeler, W.M. (1927). The ants of Lord Howe Island and Norfolk Island. *Proc. Am. Acad. Arts Sci.* 62: 121–153 [147]. Type data: syntypes, MCZ \*W,M,F, from Norfolk Is.

Distribution: Norfolk Is. Ecology: terrestrial, noctidiurnal, omnivore, open forest; nest in ground layer.

***Iridomyrmex anceps* (Roger, 1863)**

***Formica anceps*** Roger, J. (1863). Die neu aufgeführten Gattungen und Arten meines Formiciden-Verzeichnisses. *Berl. Entomol. Z.* 7: 129–214 [164]. Type data: status unknown, ?ZMB, from Malacca (Malaysia?).

Distribution: NE coastal, SE coastal, Qld., N.S.W.; also India to Cook Is. Ecology: terrestrial, noctidiurnal, omnivore, open forest; nest in ground layer.

***Iridomyrmex arcadius* Forel, 1915**

***Iridomyrmex arcadius*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [82]. Type data: syntypes, GMNH W, other syntypes may exist, from Malanda and Atherton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex bicknelli* Emery, 1898*****Iridomyrmex bicknelli bicknelli* Emery, 1898**

***Iridomyrmex bicknelli*** Emery, C. (1898). Descrizioni di formiche nuove Malesi e Australiane. Note sinonimiche. *Rec. Sess. Accad. Sci. Ist. Bologna (ns)* 2: 231–245 [236]. Type data: syntypes, MCG \*W, from Tas.

Distribution: Tas. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex bicknelli azureus* Viehmeyer, 1913**

***Iridomyrmex bicknelli azureus*** Viehmeyer, H. (1913). Neue und unvollständig bekannte Ameisen der Alten Welt. *Arch. Naturg.* 79A(12): 24–60 [41]. Type data: syntypes, ZMB \*W, from Killalpaninna, S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex bicknelli brunneus* Forel, 1902**

***Iridomyrmex bicknelli brunneus*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [469]. Type data: syntypes, GMNH W, ANIC W, from Kalgoorlie, W.A.

Distribution: W plateau, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex bicknelli lutea* Forel, 1915**

***Iridomyrmex bicknelli lutea*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [77]. Type data: holotype (probable), whereabouts unknown, from Kimberley distr., W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex bicknelli splendidus* Forel, 1902**

***Iridomyrmex bicknelli splendidus*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [468]. Type data: holotype (probable), GMNH W, from Perth, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex biconvexus* Santschi, 1928**

***Iridomyrmex biconvexus*** Santschi, F. (1928). Nouvelles fourmis d'Australie. *Bull. Soc. Vaud. Sci. Nat.* **56**: 465–483 [30 Aug. 1928] [471]. Type data: syntypes, BNHM \*W, from Ringwood, Vic.

***Iridomyrmex foetans*** Clark, J. (1929). Results of a collecting trip to the Cann River, East Gippsland. *Vict. Nat.* **46**: 115–123 [4 Oct. 1929] [122]. Type data: syntypes, NMV \*W, from Cann River, Vic.

Synonymy that of Brown, W.L. jr. (1954). New synonymy of an Australian *Iridomyrmex* (Hymenoptera: Formicidae). *Psyche Camb.* **61**: 67.

Distribution: SE coastal, Vic. Ecology: terrestrial, nocturnal, omnivore, alpine, woodland; nest in ground layer.

***Iridomyrmex chasei* Forel, 1902*****Iridomyrmex chasei chasei* Forel, 1902**

***Iridomyrmex chasei*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [467]. Type data: syntypes, GMNH W, ANIC W, from Perth, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex chasei concolor* Forel, 1902**

***Iridomyrmex chasei concolor*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [468]. Type data: syntypes, GMNH W, ANIC W, from Kalgoorlie, W.A.

Distribution: W plateau, W.A. Ecology: terrestrial, nocturnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex chasei yalgooensis* Forel, 1907**

***Iridomyrmex chasei yalgooensis*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena: G. Fischer Vol. 1 [288]. Type data: syntypes, GMNH W, ANIC W, from Geraldton, Day Dawn, Yalgoo and Coolgardie, W.A.

Distribution: W plateau, NW coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex conifer* Forel, 1902**

***Iridomyrmex conifer*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [463]. Type data: syntypes, GMNH W, ANIC W, from Perth, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex cordatus* (F. Smith, 1859)**

***Formica cordata*** Smith, F. (1859). Catalogue of hymenopterous insects collected by Mr A.R. Wallace at the islands of Aru and Key. *J. Linn. Soc. Zool.* **3**: 132–178 [137] [1 Feb. 1859]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russel Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: status unknown, ?BMNH, from Aru Is., Indonesia.

***Iridomyrmex cordatus stewartii* Forel, 1893**

***Iridomyrmex cordatus stewartii*** Forel, A. (1893). Nouvelles fourmis d'Australie et des Canaries. *Ann. Soc. Entomol. Belg.* **37**: 454–466 [456]. Type data: syntypes, GMNH W, ANIC W, from Torres Strait.

Distribution: Qld.; Torres Strait. Ecology: terrestrial, nocturnal, omnivore, open forest, closed forest; nest in ground layer.

***Iridomyrmex cyaneus* Wheeler, 1915**

***Iridomyrmex cyaneus*** Wheeler, W.M. (1915). Hymenoptera. *Trans. R. Soc. S. Aust.* **39**: 805–823 pls 64–66 [Dec. 1915] [812]. Type data: syntypes, MCZ \*W, from Black Rock Hole in the Musgrave Ranges and Moorilyanna, S.A.

Distribution: W plateau, Lake Eyre basin, S.A. Ecology: terrestrial, nocturnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex darwinianus* (Forel, 1907)**

***Iridomyrmex darwinianus darwinianus*** (Forel, 1907)

***Tapinoma (Doleromyrma) darwinianum*** Forel, A. (1907). Formicides du Musée National Hongrois. *Ann. Hist.- Nat. Mus. Natl. Hung.* **5**: 1–42 [30 June 1907]

[28]. Type data: syntypes, GMNH W,M, ANIC W, other syntypes may exist in MNH, from Mt. Victoria, Blue Mts., N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex darwinianus fida* (Forel, 1907)**

***Tapinoma (Doleromyrma) darwinianum fida*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [286]. Type data: syntypes, GMNH W,F, ANIC W, from Guildford, Collie, Bunbury, Bridgetown, Donnybrook, Boyanup and Pickering Brook, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex darwinianus leae* Forel, 1913**

***Iridomyrmex darwinianus leae*** Forel, A. (1913). Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* **49**: 173–196 pl 2 [189]. Type data: syntypes, GMNH W, ANIC W, from Geelong, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex discors* Forel, 1902**

***Iridomyrmex discors discors* Forel, 1902**

***Iridomyrmex discors*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [464]. Type data: syntypes, GMNH W, ANIC W, from Charters Towers, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex discors aeneogaster* Wheeler, 1915**

***Iridomyrmex discors aeneogaster*** Wheeler, W.M. (1915). Hymenoptera. *Trans. R. Soc. S. Aust.* **39**: 805–823 pls 64–66 [Dec. 1915] [811]. Type data: holotype, MCZ \*W, from Flat Rock Hole, Musgrave Ranges, S.A.

Distribution: W plateau, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex discors obscurior* Forel, 1902**

***Iridomyrmex discors obscurior*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [465]. Type data: syntypes, GMNH W, ANIC W, from Ballarat, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex discors occipitalis* Forel, 1907**

***Iridomyrmex discors occipitalis*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [294]. Type data: syntypes, GMNH W, ANIC W, from Northampton, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex dromus* Clark, 1938**

***Iridomyrmex dromus*** Clark, J. (1938). Reports of the McCoy Society for Field Investigation and Research. No. 2. Sir Joseph Bank Islands. Part 1. Formicidae (Hymenoptera). *Proc. R. Soc. Vict.* **50**: 356–382 [374]. Type data: syntypes (probable), NMV \*W, from Reevesby Is., S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex emeryi* Crawley, 1918**

***Iridomyrmex emeryi*** Crawley, W.C. (1918). Some new Australian ants. *Entomol. Rec. J. Var.* **30**: 86–92 [90]. Type data: syntypes, possibly OUM, from Healesville, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex exsanguis* Forel, 1907**

***Iridomyrmex exsanguis*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [296]. Type data: syntypes, GMNH W,F, from Denham, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex flavipes* (W.F. Kirby, 1896)**

***Hypoclinea flavipes*** Kirby, W.F. (1896). Hymenoptera. pp. 203–209 in Spencer, B. (ed.) *Report on the work of the Horn Scientific Expedition to Central Australia*. Melbourne : Melville, Mullen & Slade Pt. 1 supplement [206]. Type data: syntypes, BMNH (probable) \*W, NMV \*W, from Tempe Downs, N.T.

***Iridomyrmex rostrinotus*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [53]. Type data: syntypes, GMNH W,F,M, ANIC W, from Tennant Creek, N.T.

Synonymy that of Clark, J. (1930). The Australian ants of the genus *Dolichoderus* (Formicidae). Subgenus *Hypoclinea* Mayr. *Aust. Zool.* **6**: 252–268 [20 Aug. 1930] [268].

Distribution: Lake Eyre basin, W plateau, N.T. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.



***Iridomyrmex flavus* Mayr, 1868**

***Iridomyrmex flavus*** Mayr, G.L. (1868). Formicidae. in: *Reise der österreichischen fregatte Novara um die Erde in der Jahren 1857, 1858, 1859*. Zool. 2 Abth 1A3 1–123 pls 1–4 [60]. Type data: syntypes, NHMW (probable) \*W, from Sidney (=Sydney), N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex fornicatus* Emery, 1914**

***Iridomyrmex fornicatus*** Emery, C. (1914). Formiche d'Australie e di Samoa raccolte dal Prof. Silvestri nel 1913. *Boll. Lab. Zool. Gen. Agr. R. Scuola Agric. Portici* 8: 179–186 [30 Jan. 1914] [185]. Type data: syntypes, whereabouts uncertain, probably MCG or MNHP, from Mt. Lofty, Adelaide, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex froggatti* Forel, 1902**

***Iridomyrmex froggatti*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [470]. Type data: holotype (probable), GMNH W, from Sydney, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex gilberti* Forel, 1902**

***Iridomyrmex gilberti*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [470]. Type data: syntypes, GMNH W, ANIC W, from Cairns and Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Iridomyrmex glaber* (Mayr, 1862)*****Iridomyrmex glaber glaber* (Mayr, 1862)**

***Hypoclinea glabra*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* 12: Abhand. 649–776 [705 pl 19]. Type data: syntypes, NHMW \*W,F, from Sidney (=Sydney), N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Iridomyrmex glaber clarithorax* Forel, 1902**

***Iridomyrmex glaber clarithorax*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [473]. Type data: syntypes, GMNH W, ANIC W, from Brisbane, Qld. and Sydney, N.S.W.

Distribution: NE coastal, SE coastal, Qld., N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Iridomyrmex gracilis* (Lowne, 1865)*****Iridomyrmex gracilis gracilis* (Lowne, 1865)**

***Formica gracilis*** Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* 2: 275–280 [280]. Type data: syntypes (probable), BMNH (probable) \*W, from Sidney (=Sydney), N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex gracilis fusciventris* Forel, 1913**

***Iridomyrmex gracilis fusciventris*** Forel, A. (1913). Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* 49: 173–196 pl 2 [188]. Type data: syntypes, GMNH W, from Mullewa, W.A. and Sea Lake, Vic.

Distribution: Murray-Darling basin, NW coastal, Vic., W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex gracilis mayri* Forel, 1915**

***Iridomyrmex gracilis mayri*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [80]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Blackall (=Blackall) Range, Glen Lamington and Cedar Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex gracilis minor* Forel, 1915**

***Iridomyrmex gracilis minor*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [80]. Type data: syntypes, GMNH W,F, ANIC W, other syntypes may exist, from Atherton, Yarrabah, Cooktown and Cape York, Qld. and Perth, Noonkanbah, Kimberley distr. and Port Hedland, W.A.

Distribution: NE coastal, SW coastal, NW coastal, N coastal, Qld., W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex gracilis rubriceps* Forel, 1902**

***Iridomyrmex gracilis rubriceps*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [468]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex gracilis spurcus*** Wheeler, 1915

***Iridomyrmex gracilis spurcus*** Wheeler, W.M. (1915). Hymenoptera. *Trans. R. Soc. S. Aust.* **39**: 805–823 pls 64–66 [Dec. 1915] [813]. Type data: syntypes, MCZ \*W, from Moorilyanna, S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex hartmeyer*** Forel, 1907

***Iridomyrmex hartmeyer*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [296]. Type data: syntypes, GMNH W, from Day Dawn, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex innocens*** Forel, 1907

***Iridomyrmex innocens innocens*** Forel, 1907

***Iridomyrmex innocens*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [292]. Type data: syntypes, GMNH W,M,F, from Yalgoo, Lion Mill, Midland and Yarloop, W.A.

Distribution: SW coastal, NW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex innocens malandanus*** Forel, 1915

***Iridomyrmex innocens malandanus*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [81]. Type data: syntypes, GMNH W, other syntypes may exist, from Mt. Bellenden Ker, Malanda and Chillagoe, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex itinerans*** (Lowne, 1865)

***Iridomyrmex itinerans itinerans*** (Lowne, 1865)

***Formica itinerans*** Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* **2**: 275–280 [278]. Type data: syntypes, BMNH (probable) \*W, from Sidney (=Sydney), N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex itinerans ballaratensis*** Forel, 1902

***Iridomyrmex itinerans ballaratensis*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [472]. Type data: syntypes, GMNH W,M, from Ballarat, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex itinerans depilis*** Forel, 1902

***Iridomyrmex itinerans depilis*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [471]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex itinerans perthensis*** Forel, 1902

***Iridomyrmex itinerans perthensis*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [472]. Type data: syntypes, GMNH W, from Perth, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex longiceps*** Forel, 1907

***Iridomyrmex longiceps*** Forel, A. (1907). Formicides du Musée National Hongrois. *Ann. Hist.- Nat. Mus. Natl. Hung.* **5**: 1–42 [30 June 1907] [27]. Type data: syntypes (probable), probably in GMNH or MNH, from Mt. Victoria, Blue Mts., N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex macrocephalus*** (Erichson, 1842)

***Formica macrocephala*** Erichson, W.F. (1842). Beitrag zur Fauna von Vandiemansland mit besonderer rucksicht auf die geographische Verbreitung der Insecten. *Arch. Naturg.* **8**: 83–287 [259]. Type data: holotype (probable), ZMB \*F, from Tas.

Distribution: Tas. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex mattirolai*** Emery, 1898

***Iridomyrmex mattirolai mattirolai*** Emery, 1898

***Iridomyrmex mattirolai*** Emery, C. (1898). Descrizioni di formiche nuove Malesi e Australiane. Note sinonimiche. *Rec. Sess. Accad. Sci. Ist. Bologna (ns)* **2**: 231–245 [236]. Type data: syntypes, MCG \*W, from Tas.

Distribution: Tas. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex mattirolai continentis*** Forel, 1907

***Iridomyrmex mattirolai continentis*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [290]. Type data: syntypes, GMNH W,F, from Denham and Kalgoorlie, W.A.

Distribution: SW coastal, W plateau, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex mattirolai parcens*** Forel, 1907

***Iridomyrmex mattirolai parcens*** Forel, A. (1907). Formicides du Musée National Hongrois. *Ann. Hist.-Nat. Mus. Natl. Hung.* 5: 1-42 [30 June 1907] [27]. Type data: syntypes (probable), probably in GMNH or MNH, from Mt. Victoria, Blue Mts., N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex mattirolai splendens*** Forel, 1907

***Iridomyrmex mattirolai splendens*** Forel, A. (1907). Formicidae. pp. 263-310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [290]. Type data: syntypes, GMNH W, from Donnybrook and Albany, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex mjobergi*** Forel, 1915

***Iridomyrmex mjobergi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910-1913. 2. Ameisen. *Ark. Zool.* 9: 1-119 pls 1-3 [4 Dec. 1915] [77]. Type data: syntypes, GMNH W, other syntypes may exist, from Kimberley distr., W.A. and Cedar Creek and Malanda, Qld.

Distribution: NE coastal, N coastal, Qld., W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex nitidiceps*** E. André, 1896

***Iridomyrmex nitidiceps*** André, E. (1896). Fourmis nouvelles d'Asie et d'Australie. *Rev. Entomol.* 15: 251-265 [258]. Type data: syntypes, MNHP W, ANIC W, from Victorian Alps.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex nitidus*** Mayr, 1862

***Iridomyrmex nitidus nitidus*** Mayr, 1862

***Iridomyrmex nitida*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* 12: Abhand. 649-776 [702 pl 19]. Type data: syntypes (probable), NHMW (probable) \*W, from Australia (as New Holland).

***Acantholepis tuberculatus*** Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* 2: 331-336 [332]. Type data: syntypes (probable), BMNH (probable) \*W, from Sidney (=Sydney), N.S.W.

Synonymy that of Dalla Torre, C.G. De (1893). *Catalogus hymenopterorum hucusque descriptorum systematicus et synonymicus*. Formicidae (Heterogyna). Lipsiae : G. Engelmann Vol. 7 289 pp. [169].

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex nitidus clitellarius*** Viehmeyer, 1925

***Iridomyrmex nitidus clitellarius*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* 14: 25-39 [32]. Type data: syntypes (probable), ZMB \*W, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex nitidus queenslandensis*** Forel, 1901

***Iridomyrmex nitidus queenslandensis*** Forel, A. (1901). Formiciden aus dem Bismarck-Archipel, auf Grundlage des von Prof. Dr. F. Dahl gesammelten Materials bearbeitet. *Mitt. Zool. Mus. Berl.* 2: 1-37 [3 Apr. 1901] [21]. Type data: syntypes, GMNH W,F,M, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex obscurus*** Crawley, 1921

***Iridomyrmex obscurus*** Crawley, W.C. (1921). New and little-known species of ants from various localities. *Ann. Mag. Nat. Hist.* (9) 7: 87-97 [92]. Type data: syntypes, BMNH \*W, from Koolpinyah, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex procidus*** (Erichson, 1842)

***Formica procidua*** Erichson, W.F. (1842). Beitrag zur Fauna von Vandiemansland mit besonderer rucksicht auf die geographische Verbreitung der Insecten. *Arch. Naturg.* 8: 83-287 [259]. Type data: holotype (probable), ZMB \*F, from Tas.

Distribution: Tas. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex punctatissimus*** Emery, 1887

***Iridomyrmex punctatissimus*** Emery, C. (1887). Catalogo delle formiche esistenti nelle collezioni del Museo Civico di Genova. Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* 25: 209-258 pls 3-4 [251]. Type data: syntypes, MCG \*W, from Mt. Victoria, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.



***Iridomyrmex purpureus*** (F. Smith, 1858)

***Iridomyrmex purpureus purpureus*** (F. Smith, 1858)

***Formica purpurea*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [40]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*W, from Melbourne, Vic.

***Formica detecta*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [36]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*F, from Hunter River, N.S.W.

***Liometopum aeneum*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* 12: Abhand. 649–776 [704 pl 19]. Type data: syntypes (probable), NHMW \*F, from Australia (as New Holland).

***Formica smithii*** Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* 2: 275–280 [276]. Type data: syntypes (probable), BMNH (probable) \*W, from Sidney (=Sydney), N.S.W.

Synonymy that of Dalla Torre, C.G. De (1893). *Catalogus hymenopterorum hucusque descriptorum systematicus et synonymicus*. Formicidae (Heterogyna). Lipsiae : G. Engelmann Vol. 7 289 pp. [168].

Distribution: SE coastal, N.S.W., Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer. Biological references: Greenslade, P.J.M. (1975). Dispersion and history of a population of the meat ant *Iridomyrmex purpureus* (Hymenoptera : Formicidae). *Aust. J. Zool.* 23: 495–510.

***Iridomyrmex purpureus castrae*** Viehmeyer, 1925

***Iridomyrmex detectus castrae*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* 14: 25–39 [31]. Type data: syntypes, ZMB \*W, from Liverpool, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex purpureus sanguinea*** Forel, 1910

***Iridomyrmex detectus sanguinea*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* 18: 1–94 [53]. Type data: syntypes, GMNH W, ANIC W, from Mackay and Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex purpureus viridiaeneus*** Viehmeyer, 1913

***Iridomyrmex detectus viridiaeneus*** Viehmeyer, H. (1913). Neue und unvollständig bekannte Ameisen der Alten Welt. *Arch. Naturg.* 79A(12): 24–60 [41]. Type data: syntypes, ZMB \*W, ANIC W, from Killalpaninna, S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer. Biological references: Greenslade, P. (1981). Temperature limits to trailing activity in the Australian arid-zone ant *Iridomyrmex purpureus* form *viridiaeneus*. *Aust. J. Zool.* 29: 621–630 (foraging behaviour).

***Iridomyrmex rufoniger*** (Lowne, 1865)

***Iridomyrmex rufoniger rufoniger*** (Lowne, 1865)

***Formica rufonigra*** Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* 2: 275–280 [279]. Type data: syntypes (probable), BMNH (probable) \*W, from Sidney (=Sydney), N.S.W.

***Acantholepis mamillatus*** Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* 2: 331–336 [333]. Type data: syntypes (probable), BMNH (probable) \*W, from Sidney (=Sydney), N.S.W.

Synonymy that of Dalla Torre, C.G. De (1893). *Catalogus hymenopterorum hucusque descriptorum systematicus et synonymicus*. Formicidae (Heterogyna). Lipsiae : G. Engelmann Vol. 7 289 pp. [169].

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex rufoniger domestica*** Forel, 1910

***Iridomyrmex rufoniger domestica*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* 18: 1–94 [51]. Type data: syntypes, GMNH W,F,M, ANIC W, from Howlong and Richmond near Sydney, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex rufoniger incerta*** Forel, 1902

***Iridomyrmex rufoniger incertus*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [466]. Type data: syntypes, GMNH W, ANIC W, from Ralum, Bismarck Archipelago.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex rufoniger pallidus*** Forel, 1901

***Iridomyrmex rufoniger pallidus*** Forel, A. (1901). Formiciden aus dem Bismarck-Archipel, auf Grundlage des von Prof. Dr. F. Dahl gesammelten Materials bearbeitet. *Mitt. Zool. Mus. Berl.* **2**: 1–37 [3 Apr. 1901] [22]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex rufoniger septentrionalis*** Forel, 1902

***Iridomyrmex rufoniger septentrionalis*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [465]. Type data: syntypes, GMNH W,F,M, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex rufoniger suchieri*** Forel, 1907

***Iridomyrmex rufoniger suchieri*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [291]. Type data: syntypes, GMNH W,M,F, ANIC W, from Day Dawn, Yalgoo, Eradu, Dougarra (=Dongarra), Woorolloo and Subiaco, W.A.

Distribution: SW coastal, NW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex rufoniger victorianus*** Forel, 1902

***Iridomyrmex rufoniger victorianus*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [466]. Type data: syntypes, GMNH W,F, ANIC W, from Ballarat, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex vicina*** Clark, 1934

***Iridomyrmex vicina*** Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* **8**: 48–73 [62 pl 4]. Type data: syntypes, NMV \*W,F, from Beech Forest, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Iridomyrmex viridigaster*** Clark, 1941

***Iridomyrmex viridigaster*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* **12**: 71–94 [87 pl 13]. Type data: syntypes (probable), NMV \*W, from Patho, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Leptomyrmex*** Mayr, 1862

***Leptomyrmex*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* **12**: Abhand. 649–776 [695 pl 19]. Type species *Formica erythrocephala* Fabricius, 1775 by monotypy.

This group is also found in New Guinea and New Caledonia.

***Leptomyrmex darlingtoni*** Wheeler, 1934

***Leptomyrmex darlingtoni darlingtoni*** Wheeler, 1934

***Leptomyrmex darlingtoni*** Wheeler, W.M. (1934). A second revision of the ants of the genus *Leptomyrmex* Mayr. *Bull. Mus. Comp. Zool.* **77**: 67–118 [104]. Type data: syntypes, MCZ \*W,M, from Lankelly Creek in the McIlhwaite (=McIlwraith) Range, Cape York Peninsula, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, closed forest; nest in ground layer.

***Leptomyrmex darlingtoni fascigaster*** Wheeler, 1934

***Leptomyrmex darlingtoni fascigaster*** Wheeler, W.M. (1934). A second revision of the ants of the genus *Leptomyrmex* Mayr. *Bull. Mus. Comp. Zool.* **77**: 67–118 [107]. Type data: syntypes, MCZ \*W, from Coen, Cape York Peninsula, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex darlingtoni jucundus*** Wheeler, 1934

***Leptomyrmex darlingtoni jucundus*** Wheeler, W.M. (1934). A second revision of the ants of the genus *Leptomyrmex* Mayr. *Bull. Mus. Comp. Zool.* **77**: 67–118 [107]. Type data: syntypes, MCZ \*W, from Coen, Cape York Peninsula, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest; nest in ground layer.

***Leptomyrmex erythrocephalus*** (Fabricius, 1775)

***Leptomyrmex erythrocephalus erythrocephalus*** (Fabricius, 1775)

***Formica erythrocephala*** Fabricius, J.C. (1775). *Systema Entomologiae*, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus. Flensburgi et Lipsiae [391]. Type data: holotype (probable), BMNH W, from Australia (as New Holland).

Distribution: NE coastal, SE coastal, Qld., N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex erythrocephalus basirufus*** Wheeler, 1934

***Leptomyrmex erythrocephalus basirufus*** Wheeler, W.M. (1934). A second revision of the ants of the genus *Leptomyrmex* Mayr. *Bull. Mus. Comp. Zool.* **77**: 67–118 [90]. Type data: syntypes, MCZ \*W, from Buderim Mts. and Bundaberg, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex erythrocephalus brunneiceps*** Wheeler, 1934

***Leptomyrmex erythrocephalus brunneiceps*** Wheeler, W.M. (1934). A second revision of the ants of the genus *Leptomyrmex* Mayr. *Bull. Mus. Comp. Zool.* **77**: 67–118 [88]. Type data: syntypes, MCZ \*W, from Mt. Wilson and Wentworth Falls, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex erythrocephalus clarki*** Wheeler, 1934

***Leptomyrmex erythrocephalus clarki*** Wheeler, W.M. (1934). A second revision of the ants of the genus *Leptomyrmex* Mayr. *Bull. Mus. Comp. Zool.* **77**: 67–118 [117]. Type data: syntypes, MCZ \*W, from Fletcher, Qld.

Distribution: Murray-Darling basin, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex erythrocephalus cnemidatus*** Wheeler, 1915

***Leptomyrmex erythrocephalus cnemidatus*** Wheeler, W.M. (1915). The Australian honey-ants of the genus *Leptomyrmex* Mayr. *Proc. Am. Acad. Arts Sci.* **51**: 253–286 [268]. Type data: holotype, MCZ \*W, from N.S.W.

Distribution: NE coastal, SE coastal, Qld., N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Leptomyrmex erythrocephalus decipiens*** Wheeler, 1915

***Leptomyrmex erythrocephalus decipiens*** Wheeler, W.M. (1915). The Australian honey-ants of the genus *Leptomyrmex* Mayr. *Proc. Am. Acad. Arts Sci.* **51**: 253–286 [268]. Type data: syntypes, MCZ \*W, from Gin-Gin, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Leptomyrmex erythrocephalus mandibularis*** Wheeler, 1915

***Leptomyrmex erythrocephalus mandibularis*** Wheeler, W.M. (1915). The Australian honey-ants of the genus *Leptomyrmex* Mayr. *Proc. Am. Acad. Arts Sci.* **51**: 253–286 [268]. Type data: holotype, MCZ \*W, from vicinity of Sydney, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex erythrocephalus rufithorax*** Forel, 1915

***Leptomyrmex erythrocephalus rufithorax*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [83]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Mt. Tambourine (=Tamborine Mt.) and Blackall (=Blackall) Range, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Leptomyrmex erythrocephalus unctus*** Wheeler, 1934

***Leptomyrmex erythrocephalus unctus*** Wheeler, W.M. (1934). A second revision of the ants of the genus *Leptomyrmex* Mayr. *Bull. Mus. Comp. Zool.* **77**: 67–118 [87]. Type data: syntypes, MCZ \*W, from Condor Creek, near Canberra, A.C.T.

Distribution: Murray-Darling basin, A.C.T. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex erythrocephalus venustus*** Wheeler, 1934

***Leptomyrmex erythrocephalus venustus*** Wheeler, W.M. (1934). A second revision of the ants of the genus *Leptomyrmex* Mayr. *Bull. Mus. Comp. Zool.* **77**: 67–118 [87]. Type data: syntypes, MCZ \*W,F, from Mt. Tomah, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex froggatti*** Forel, 1910

***Leptomyrmex froggatti*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [57]. Type data: syntypes, GMNH W,M, ANIC W, from N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.



***Leptomyrmex mjobergi* Forel, 1915**

***Leptomyrmex mjobergi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [84]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Colosseum, Tolga and Herberton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, closed forest; nest in ground layer.

***Leptomyrmex nigriventris* (Guérin, 1831)**

***Leptomyrmex nigriventris nigriventris*** (Guérin, 1831)

***Formica nigriventris*** Guérin-Meneville, F.E. (1831). Chapter 12, Insectes. in Duperrey, M.L.I. (1838). *Voyage autour du monde, exécuté par ordre du Roi, sur la corvette de La Majesté, La Coquille, pendant les années 1822, 1823, 1824 et 1825*. Vol. 2 part 2 division 1 : 57–302 Atlas (1830–1832) Ins pls 1–21 [205 pl 8 fig 4]. Publication date established from Bequaert, J. (1926). The date of publication of the Hymenoptera and Diptera described by Guérin in Duperrey's Voyage de *La Coquille*". *Entomol. Mitt.* **15**: 186–195 [20 Mar. 1926]. Type data: uncertain, MNHP (probable) \*W, from Port Jackson, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex nigriventris hackeri* Wheeler, 1934**

***Leptomyrmex nigriventris hackeri*** Wheeler, W.M. (1934). A second revision of the ants of the genus *Leptomyrmex* Mayr. *Bull. Mus. Comp. Zool.* **77**: 67–118 [99]. Type data: syntypes, MCZ \*W, from Stradbroke Is., Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex nigriventris tibialis* Emery, 1895**

***Leptomyrmex nigriventris tibialis*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [351]. Type data: syntypes, MCG \*W, from N Qld.

Distribution: NE coastal, SE coastal, N.S.W., Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Leptomyrmex unicolor* Emery, 1895**

***Leptomyrmex unicolor*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [352]. Type data: syntypes, MCG \*W, from Cairns (=Cairns), Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, closed forest; nest in ground layer.

***Leptomyrmex varians* Emery, 1895**

***Leptomyrmex varians varians*** Emery, 1895

***Leptomyrmex varians*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [352]. Type data: syntypes, NHMW (probable) \*W, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex varians angusticeps* Santschi, 1929**

***Leptomyrmex varians angusticeps*** Santschi, F. (1929). Mélange myrmécologique. *Wien Entomol. Ztg.* **46**: 84–93 [15 Sept. 1929] [93]. Type data: syntypes, BNHM M, from Beyfield (=Byfield), Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex varians quadricolor* Wheeler, 1934**

***Leptomyrmex varians quadricolor*** Wheeler, W.M. (1934). A second revision of the ants of the genus *Leptomyrmex* Mayr. *Bull. Mus. Comp. Zool.* **77**: 67–118 [104]. Type data: syntypes, MCZ \*W, from Lankelly Creek in the McIlhthwaite (=McIlwraith) Range, Cape York Peninsula, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex varians rothneyi* Forel, 1902**

***Leptomyrmex varians rothneyi*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [473]. Type data: syntypes, GMNH W, from Brisbane, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex varians ruficeps* Emery, 1895**

***Leptomyrmex varians ruficeps*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [352]. Type data: syntypes, MCG \*W, from Mt. Bellenden Ker, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex varians rufipes* Emery, 1895**

***Leptomyrmex varians rufipes*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [352]. Type data: syntypes, MCG \*W, from Laidely (=Laidley) and Brisbane, Qld.

Distribution: NE coastal, SE coastal, N.S.W., Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex wiburdi* Wheeler, 1915**

***Leptomyrmex wiburdi wiburdi* Wheeler, 1915**

***Leptomyrmex wiburdi* Wheeler, W.M. (1915).** The Australian honey-ants of the genus *Leptomyrmex* Mayr. *Proc. Am. Acad. Arts Sci.* **51**: 253–286 [272]. Type data: syntypes, MCZ \*W, from Jenolan Caves, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Leptomyrmex wiburdi pictus* Wheeler, 1915**

***Leptomyrmex wiburdi pictus* Wheeler, W.M. (1915).** The Australian honey-ants of the genus *Leptomyrmex* Mayr. *Proc. Am. Acad. Arts Sci.* **51**: 253–286 [274]. Type data: syntypes, MCZ \*W, from Bulli Pass and Katoomba, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Tapinoma* Förster, 1850**

***Tapinoma* Förster, A. (1850).** *Hymenopterologische Studien. Formicariae.* pp. 1–74 Aachen : Ernst ter Meer Vol. 1 [43]. Type species *Formica erratica* Latreille, 1798 (as *Tapinoma collina* Förster, 1850) by monotypy.

This group is also found in the Neotropical, Nearctic, south Palearctic, Ethiopian, Malagasy and Oriental regions; New Guinea, east Melanesia, New Caledonia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Tapinoma minutum* Mayr, 1862**

***Tapinoma minutum minutum* Mayr, 1862**

***Tapinoma minutum* Mayr, G.L. (1862).** Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* **12**: Abhand. 649–776 [703 pl 19]. Type data: syntypes, NHMW \*W, from Sidney (=Sydney), N.S.W.

Distribution: SE coastal, NE coastal, N coastal, Qld., N.T., N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer or arboreal.

***Tapinoma minutum broomense* Forel, 1915**

***Tapinoma minutum broomensis* Forel, A. (1915).** Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to

Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [83]. Type data: syntypes, GMNH W, other syntypes may exist, from Broome, W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, open forest; nest in ground layer or arboreal.

***Tapinoma minutum cephalicum* Santschi, 1928**

***Tapinoma (Micromyrma) minutum cephalicum* Santschi, F. (1928).** Nouvelles fourmis d'Australie. *Bull. Soc. Vaud. Sci. Nat.* **56**: 465–483 [30 Aug. 1928] [472]. Type data: syntypes, BNHM \*W,F,M, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer or arboreal.

***Tapinoma minutum integrum* Forel, 1902**

***Tapinoma minutum integrum* Forel, A. (1902).** Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [476]. Type data: syntypes, GMNH W,M, ANIC W, from Mackay and Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer or arboreal.

***Tapinoma rotnnestense* Wheeler, 1934**

***Tapinoma (Micromyrma) rotnnestense* Wheeler, W.M. (1934).** Contributions to the fauna of Rottnest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* **20**: 137–163 [5 Oct. 1934] [150]. Type data: syntypes, MCZ \*W, from Lady Edeline Beach, Rottnest Is., W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer or arboreal.

***Technomyrmex* Mayr, 1872**

***Technomyrmex* Mayr, G.L. (1872).** Formicidae Borneenses collectae a J. Doria et O. Beccari in territorio Sarawak annis 1865–1867. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **2**: 133–155 [147]. Type species *Technomyrmex strenuus* Mayr, 1872 by monotypy.

***Aphantolepis* Wheeler, W.M. (1930).** Two new genera of ants from Australia and the Philippines. *Psyche Camb.* **37**: 41–47 [44]. Type species *Aphantolepis quadricolor* Wheeler, 1930 by monotypy.

Synonymy that of Brown, W.L. jr. (1953). Characters and synonymies among the genera of ants. Part II. *Breviora* **18**: 1–8 [23 Sept. 1953] [5].

This group is also found in the Ethiopian, Malagasy and Oriental regions; widespread in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Technomyrmex albipes*** (F. Smith, 1861)

***Formica (Tapinoma) albipes*** Smith, F. (1861). Catalogue of hymenopterous insects collected by Mr A.R. Wallace in the islands of Ceram, Celebes, Ternate and Gilolo. *J. Linn. Soc. Zool.* **6**: 36–66 [38]. Type data: status unknown, ?BMNH, from India.

***Technomyrmex albipes cedarensis*** Forel, 1915

***Technomyrmex albipes cedarensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [85]. Type data: syntypes, GMNH W,F, ANIC W, other syntypes may exist, from Cedar Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Technomyrmex bicolor*** Emery, 1893

***Technomyrmex bicolor*** Emery, C. (1893). Voyage de M.E. Simon à l'Île de Ceylon (Janvier–Février 1892), 3<sup>e</sup> Mémoire(1), Formicides. *Ann. Soc. Entomol. Fr.* **62**: 239–258 [249]. Type data: status unknown, ?MCG, from Ceylon.

***Technomyrmex bicolor antonii*** Forel, 1902

***Technomyrmex bicolor antonii*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [475]. Type data: syntypes, GMNH W,M, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Technomyrmex jocosus*** Forel, 1910

***Technomyrmex jocosus*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [56]. Type data: syntypes, GMNH W, ANIC W, from Yarra distr., Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Technomyrmex quadricolor*** (Wheeler, 1930)

***Aphantolepis quadricolor*** Wheeler, W.M. (1930). Two new genera of ants from Australia and the Philippines. *Psyche Camb.* **37**: 41–47 [44]. Type data: holotype, MCZ \*W, from Cairns distr., Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, closed forest; nest in ground layer.

***Technomyrmex sophiae*** Forel, 1902

***Technomyrmex sophiae*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [474]. Type data: syntypes, GMNH W,F, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Turneria*** Forel, 1895

***Turneria*** Forel, A. (1895). Nouvelles fourmis d'Australie, récoltées à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* **39**: 417–428 [419]. Type species *Turneria bidentata* Forel, 1895 by monotypy.

This group is also found in New Guinea and east Melanesia.

***Turneria bidentata*** Forel, 1895

***Turnesia bidentata*** Forel, A. (1895). Nouvelles fourmis d'Australie, récoltée à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* **39**: 417–428 [419]. Type data: syntypes (probable), GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, omnivore, closed forest; nest arboreal.

***Turneria frenchi*** Forel, 1911

***Turneria frenchi*** Forel, A. (1911). Ameisen aus Java beobachtet und gesammelt von Herrn Edward Jacobson. *Notes Leyden Mus.* **33**: 193–218 [29 Apr. 1911] [207]. Type data: syntypes (probable), RIB \*W, from Australia.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, omnivore, closed forest; nest arboreal.

## FORMICINAE

***Acropyga*** Roger, 1862

***Acropyga*** Roger, J. (1862). Einige neue exotische Ameisen - Gattungen und Arten. *Berl. Entomol. Z.* **6**: 233–254 [242 pl 1]. Type species *Acropyga acutiventris* Roger, 1862 by monotypy.

This group is also found in the Neotropical, south Nearctic, north Ethiopian and Oriental regions; New Guinea and east Melanesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Acropyga indistincta*** Crawley, 1923

***Acropyga indistincta*** Crawley, W.C. (1923). Myrmecological notes - new Australian Formicidae. *Entomol. Rec. J. Var.* **35**: 177–179 [178]. Type data: syntypes, OUM \*W, from Mundaring, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.



***Acropyga moluccana* Mayr, 1878**

***Acropyga moluccana*** Mayr, G.L. (1878). Beiträge zur Ameisen-Fauna Asiens. *Verh. Zool.-Bot. Ges. Wien* **28**: 645–686 [658]. Type data: status unknown, ?NHMW, from Ceram Is., Indonesia.

***Acropyga moluccana australis* Forel, 1902**

***Acropyga moluccana australis*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [477]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, N coast, N Gulf, W.A., N.T., Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Acropyga myops* Forel, 1910**

***Acropyga myops*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [59]. Type data: syntypes, GMNH W, ANIC W, from Bombala, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Anoplolepis* Santschi, 1914**

***Anoplolepis*** Santschi, F. (1914). Formicidae. in, *Voyage de Ch. Alluaud et R. Jeannel en Afrique orientale, 1911–1912*. Hymenoptera. **2**: 41–148 [25 Feb. 1914] [123 pls 2–3] [proposed with subgeneric rank in *Plagiopolepis* Mayr, 1861]. Type species *Formica longipes* Jerdon, 1851 by original designation.

This group is also found in the Ethiopian and Oriental regions; New Guinea, east Melanesia and parts of Polynesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Anoplolepis longipes* (Jerdon, 1851)**

***Formica longipes*** Jerdon, T.C. (1851). A catalogue of the species of ants found in southern India. *Madras J. Lit. Sci.* **17**: 103–127 [122]. Type data: unknown, from India.

Distribution: N coastal, NE coastal, N Gulf, N.T., Qld.; widespread in SE Asia and Pacific, a "tramp" species of African origin. Ecology: terrestrial, arboreal, diurnal, omnivore, open forest, closed forest; nest in ground layer or above.

***Calomyrmex* Emery, 1895**

***Calomyrmex*** Emery, C. (1895). Die Gattung *Dorylus* Fab. und die systematische Einteilung der Formiciden. *Zool. Jb. (Syst.)* **8**: 685–778 [8 Oct. 1895] [772 pls 14–17]. Type species *Formica laevissima* F. Smith, 1859

by subsequent designation, see Wheeler, W.M. (1911). A list of the type species of the genera and subgenera of Formicidae. *Ann. N.Y. Acad. Sci.* **21**: 157–175 [17 Oct. 1911].

This group is also found in New Guinea.

***Calomyrmex albertisi* (Emery, 1887)**

***Camponotus albertisi*** Emery, C. (1887). Catalogo delle formiche esistenti nelle collezioni del Museo Civico di Genova. Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **25**: 209–258 pls 3–4 [221]. Type data: holotype, MCG \*W, from Fly River, New Guinea.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest, closed forest; nest in soil.

***Calomyrmex albopilosus* (Mayr, 1876)*****Calomyrmex albopilosus albopilosus* (Mayr, 1876)**

***Camponotus albopilosus*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [61]. Type data: syntypes, NHMW W,M,F, from Rockhampton, Peak Downs and Gayndah, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in soil.

***Calomyrmex albopilosus wienandsi* (Forel, 1910)**

***Camponotus (Calomyrmex) albopilosus wienandsi*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [82]. Type data: syntypes, GMNH W,F, ANIC W, from Gunnedah, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Calomyrmex glauerti* Clark, 1930**

***Calomyrmex glauerti*** Clark, J. (1930). Some new Australian Formicidae. *Proc. R. Soc. Vict.* **42**: 116–128 [10 Mar. 1930] [125]. Type data: holotype, WAM 22–391 \*W, from Murchison River, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Calomyrmex impavidus* (Forel, 1893)**

***Camponotus impavidus*** Forel, A. (1893). Nouvelles fourmis d'Australie et des Canaries. *Ann. Soc. Entomol. Belg.* **37**: 454–466 [455]. Type data: syntypes, GMNH W, from Port Darwin, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, omnivore, open forest; nest in soil.

***Calomyrmex purpureus*** (Mayr, 1876)

***Calomyrmex purpureus purpureus*** (Mayr, 1876)

***Camponotus purpureus*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [62]. Type data: syntypes, NHMW W, from Peak Downs, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Calomyrmex purpureus smaragdina*** Emery, 1898

***Calomyrmex purpureus smaragdina*** Emery, C. (1898). Descrizioni di formiche nuove Malesi e Australiane. Note sinonimiche. *Rec. Sess. Accad. Sci. Ist. Bologna (ns)* 2: 231–245 [238]. Type data: holotype, MCG \*W, from Adelaide, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Calomyrmex similis*** (Mayr, 1876)

***Camponotus similis*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [61]. Type data: syntypes, NHMW W, from Rockhampton and Gayndah, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Calomyrmex splendidus*** (Mayr, 1876)

***Calomyrmex splendidus splendidus*** (Mayr, 1876)

***Camponotus splendidus*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [61]. Type data: syntypes, NHMW W, from Peak Downs, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Calomyrmex splendidus mutans*** (Forel, 1910)

***Camponotus (Calomyrmex) splendidus mutans*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* 18: 1–94 [83]. Type data: syntypes, GMNH W,F, from Tennant Creek, N.T.

Distribution: W plateau, N.T. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in soil.

***Calomyrmex splendidus viridiventris*** Forel, 1915

***Calomyrmex splendidus viridiventris*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [106]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Kimberley distr., W.A. and Laura and Alice River, Qld.

Distribution: N coastal, NE coastal, W.A., Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Camponotus*** Mayr, 1861

***Camponotus*** Mayr, G.L. (1861). *Die europäischen Formiciden. (Ameisen.) Nach der analytischen Methode bearbeitet.* Vienna : Carl Gerolds Sohn 80 pp. 1 pl. [35]. Type species *Formica ligniperda* Latreille, 1802 by subsequent designation, see Bingham, C.T. (1903). *The Fauna of British India, including Ceylon and Burma.* Hymenoptera. Vol. 2 Ants and cuckoo-wasps. London : Taylor & Francis [347].

***Myrmophyma*** Forel, A. (1912). Formicides néotropiques. Part 6. 5me sous-famille Camponotinae Forel. *Mém. Soc. Entomol. Belg.* 20: 59–92 [92] [proposed with subgeneric rank in *Camponotus* Mayr, 1861]. Type species *Camponotus capito* Mayr, 1876 by subsequent designation, see Wheeler, W.M. (1913). Corrections and additions to "List of type species of the genera and subgenera of Formicidae". *Ann. N.Y. Acad. Sci.* 23: 77–83 [29 May 1913].

***Myrmocamelus*** Forel, A. (1914). Le genre *Camponotus* Mayr and les genres voisins. *Rev. Suisse Zool.* 22: 257–276 [261] [proposed with subgeneric rank in *Camponotus* Mayr, 1861; redefined in Ettershank, G. (1966). A generic revision of the world Myrmicinae related to *Solenopsis* and *Pheidologeton* (Hymenoptera : Formicidae). *Aust. J. Zool.* 14: 73–171]. Type species *Formica ephippium* F. Smith, 1858 by original designation.

***Thlipsepinotus*** Santschi, F. (1928). Nouvelles fourmis d'Australie. *Bull. Soc. Vaud. Sci. Nat.* 56: 465–483 [483] [proposed with subgeneric rank in *Camponotus* Mayr, 1861]. Type species *Camponotus claripes* Mayr, 1876 by original designation.

Synonymy that of Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review.* Washington : Smithsonian Institution Press [177].

This group is found worldwide, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review.* Washington : Smithsonian Institution Press.

***Camponotus adami*** Forel, 1910

***Camponotus adami*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* 18: 1–94 [70]. Type data: syntypes, GMNH W, ANIC W, from Bombala, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Camponotus aeneopilosus* Mayr, 1862

*Camponotus aeneopilosus aeneopilosus* Mayr, 1862

*Camponotus aeneopilosus* Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* 12: Abhand. 649–776 [665 pl 19]. Type data: syntypes, NHMW W, from Sidney (=Sydney), N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Camponotus aeneopilosus flavidopubescens* Forel, 1902

*Camponotus aeneopilosus flavidopubescens* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [504]. Type data: syntypes, GMNH W, ANIC W, from N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Camponotus afflatus* Viehmeyer, 1925

*Camponotus (Myrmosaga) afflatus* Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* 14: 139–149 [140]. Type data: syntypes (probable), ZMB \*W, from Killalpaninno (=Killalpaninna), S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland; nest in ground layer.

*Camponotus arcuatus* Mayr, 1876

*Camponotus arcuatus arcuatus* Mayr, 1876

*Camponotus arcuatus* Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [63]. Type data: syntypes, NHMW W, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, hummock grassland, woodland, open forest; nest in ground layer.

*Camponotus arcuatus aesopus* Forel, 1907

*Camponotus arcuatus aesopus* Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [302]. Type data: holotype, probably destroyed in ZMH in WW II, from Mt. Robinson near Kalgoorlie, W.A.

Distribution: W plateau, W.A. Ecology: terrestrial, noctidiurnal, omnivore, hummock grassland, woodland, open forest; nest in ground layer.

*Camponotus armstrongi* McAreavey, 1949

*Camponotus (Myrmogonia) armstrongi* McAreavey, J.J. (1949). Australian Formicidae. New genera and species. *Proc. Linn. Soc. N.S.W.* 74: 1–25 [15 June 1949] [19]. Type data: holotype, ANIC W, from Nyngan, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland, open forest; nest in ground layer.

*Camponotus aurocinctus* (F. Smith, 1858)

*Formica aurocincta* Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [39]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*W, from Adelaide, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Camponotus bigenus* Santschi, 1919

*Camponotus (Myrmocamelus) bigenus* Santschi, F. (1919). Cinq notes myrmécologiques. *Bull. Soc. Vaud. Sci. Nat.* 52: 325–350 [333]. Type data: syntypes, BNHM W,M, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Camponotus cameratus* Viehmeyer, 1925

*Camponotus (Myrmogonia) cameratus* Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* 14: 139–149 [146]. Type data: syntypes, ZMB \*W, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Camponotus capito* Mayr, 1876

*Camponotus capito capito* Mayr, 1876

*Camponotus capito* Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [64]. Type data: syntypes, NHMW W,F, from Peak Downs, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Camponotus capito ebeninithorax* Forel, 1915

*Camponotus (Myrmophyma) capito ebeninithorax* Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark.*



*Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [100]. Type data: syntypes, GMNH W, other syntypes may exist, from Australia.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus ceriseipes* Clark, 1938**

*Camponotus (Myrmophyma) ceriseipes* Clark, J. (1938). Reports of the McCoy Society for Field Investigation and Research. No. 2. Sir Joseph Bank Islands. Part I. Formicidae (Hymenoptera). *Proc. R. Soc. Vict.* 50: 356–382 [378]. Type data: syntypes, NMV \*W, from N end of Reevesby Is., S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus chaliceoides* Clark, 1938**

*Camponotus (Myrmophyma) chaliceoides* Clark, J. (1938). Reports of the McCoy Society for Field Investigation and Research. No. 2. Sir Joseph Bank Islands. Part I. Formicidae (Hymenoptera). *Proc. R. Soc. Vict.* 50: 356–382 [376]. Type data: syntypes, NMV \*W, from Reevesby Is., S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus chalcus* Crawley, 1915**

*Camponotus (Myrmosaga) chalcus* Crawley, W.C. (1915). Ants from north and south-west Australia (G.F. Hill, Rowland Turner) and Christmas Island, Straits Settlements. Part II. *Ann. Mag. Nat. Hist.* (8) 15: 232–239 [236]. Type data: syntypes, possibly OUM, from Yallingup, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus cinereus* Mayr, 1876**

***Camponotus cinereus cinereus* Mayr, 1876**

*Camponotus cinereus* Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [62]. Type data: syntypes, NHMW W, from Peak Downs, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus cinereus amperei* Forel, 1913**

*Camponotus (Myrmocamelus) cinereus amperei* Forel, A. (1913). Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* 49: 173–196 pl 2 [192]. Type data: syntypes, GMNH W, from Sea Lake, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus cinereus notterae* Forel, 1907**

*Camponotus cinereus notterae* Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [303]. Type data: holotype, probably destroyed in ZMH in WW II, from Gooseberry (=Gooseberry) Hill, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus claripes* Mayr, 1876**

***Camponotus claripes claripes* Mayr, 1876**

*Camponotus claripes* Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [64]. Type data: syntypes, whereabouts unknown, from Peak Downs and Gayndah, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus claripes elegans* Forel, 1902**

*Camponotus claripes elegans* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [496]. Type data: syntypes, GMNH W, ANIC W, from Wallsend, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus claripes inverallensis* Forel, 1910**

*Camponotus claripes inverallensis* Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* 18: 1–94 [72]. Type data: syntypes, GMNH W, from Reedy Creek, Inverell, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus claripes marcens* Forel, 1907**

*Camponotus claripes marcens* Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [300]. Type data: syntypes, GMNH W, ANIC W, from Mundaring Weir and Guildford, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus claripes minimus* Crawley, 1922**

***Camponotus (Myrmophyma) claripes minima* Crawley, W.C. (1922).** New ants from Australia. *Ann. Mag. Nat. Hist.* (9) 10: 16–36 [31]. Type data: syntypes, OUM \*W,F,M, from Mundaring, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus claripes nudimalis* Forel, 1913**

***Camponotus claripes nudimalis* Forel, A. (1913).** Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* 49: 173–196 pl 2 [191]. Type data: holotype, GMNH W, from Bridgetown, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus claripes orbiculatopunctatus* Viehmeyer, 1925**

***Camponotus (Myrmophyma) claripes orbiculatopunctatus* Viehmeyer, H. (1925).** Formiciden der australischen Faunenregion. *Entomol. Mitt.* 14: 139–149 [143]. Type data: syntypes, ZMB \*W,F, from Liverpool, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus claripes piperatus* Wheeler, 1933**

***Camponotus (Myrmophyma) claripes piperatus* Wheeler, W.M. (1933).** Mermis parasitism in some Australian and Mexican ants. *Psyche Camb.* 40: 20–31 [26]. Type data: syntypes, MCZ \*W,F,M, from Mt. Lofty, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus consecretator* (F. Smith, 1858)**

***Formica consecretator* Smith, F. (1858).** *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [38]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*F, from Australia.

Distribution: (SE coastal), (N.S.W.). Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus consobrinus* (Erichson, 1842)**

***Formica consobrina* Erichson, W.F. (1842).** Beitrag zur Fauna von Vandiemansland mit besonderer rucksicht auf

die geographische Verbreitung der Insecten. *Arch. Naturg.* 8: 83–287 [258]. Type data: holotype (probable), ZMB \*F, from Tas.

***Camponotus dimidiatus* Roger, J. (1863).** Verzeichniss der Formiciden-Gattungen und Arten. *Berl. Entomol. Z.* 7 appendix to vol.: 1–65 [4]. Type data: holotype, NHMW \*W,F, from Australia (as New Holland).

Synonymy that of Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* 8: 48–73 [70].

Distribution: SE coastal, Murray-Darling basin, NE coastal, S Gulfs, Qld., N.S.W., A.C.T., Vic., S.A., Tas. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Camponotus cowlei* Froggatt, 1896**

***Camponotus cowlei* Froggatt, W.W. (1896).** Honey ants. pp. 385–392 in Spencer, B. (ed.) *Report on the work of the Horn Scientific Expedition to Central Australia*. Melbourne : Melville, Mullen & Slade Pt. 2 Zoology [387 pl 27]. Type data: syntypes, AM W,F,M, from Illamurta in the James Range and Spencer Gorge in the McDonnell Range, N.T.

Distribution: Lake Eyre basin, N.T. Ecology: terrestrial, nocturnal, omnivore, desert, woodland; nest in soil.

***Camponotus crenatus* Mayr, 1876**

***Camponotus crenatus* Mayr, G.L. (1876).** Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [64]. Type data: holotype (probable), NHMW W, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus cruentatus* (Latreille, 1802)**

***Formica cruentata* Latreille, P.A. (1802).** *Histoire naturelle des fourmis, et recueil de mémoires et d'observations sur les abeilles, les araignées, les faucheurs, et autre insectes*. Paris : Crapelet 445 pp. 12 pls [116]. Type data: status unknown, ?MNHP, from Afrique.

***Camponotus cruentatus aspera* Menozzi, 1925**

***Camponotus (Myrmosericus) cruentatus aspera* Menozzi, C. (1925).** Qualche formica nuova od interessante del Deutsch. Entomol. Institut di Dahlem (Form.). *Entomol. Mitt.* 14: 368–371 [371]. Type data: syntypes, probably BIE\* or DEIB\*, from Melbourne, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus denticulatus* W.F. Kirby, 1896**

***Camponotus denticulatus* Kirby, W.F. (1896).** Hymenoptera. pp. 203–209 in Spencer, B. (ed.) *Report on the work of the Horn Scientific Expedition to Central Australia*. Melbourne : Melville, Mullen & Slade Pt. 1 supplement [204]. Type data: syntypes, BMNH (probable) \*W, from McDonnell Range, N.T.

Distribution: Lake Eyre basin, N.T. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland; nest in soil.

***Camponotus discors*** Forel, 1902

***Camponotus discors discors*** Forel, 1902

***Camponotus maculatus discors*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [497]. Type data: syntypes, GMNH W, ANIC W, from Pera Bore, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer. Biological references: Emery, C. (1920). Studi sui *Camponotus*. *Boll. Soc. Entomol. Ital.* **52**: 1–49 (raised to species).

***Camponotus discors yarrabahensis*** Forel, 1915

***Camponotus (Myrmoturba) maculatus yarrabahensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [98]. Type data: syntypes, GMNH W, other syntypes may exist, from Yarrabah and Malanda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Camponotus dorycus*** (F. Smith, 1860)

***Formica dorycus*** Smith, F. (1860). Catalogue of hymenopterous insects collected by Mr A.R. Wallace in the Islands of Bachian, Kaisaa, Amboyne, Gilolo, and at Dory in New Guinea. *J. Linn. Soc. Zool.* **4** (suppl.): 93–143 [96]. Type data: status unknown, ?BMNH, from Dory.

***Camponotus dorycus confusus*** Emery, 1887

***Camponotus dorycus confusus*** Emery, C. (1887). Catalogo delle formiche esistenti nelle collezioni del Museo Civico di Genova. Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **25**: 209–258 pls 3–4 [215]. Type data: syntypes, MCG \*W,F, from Katau, New Guinea, Percy Isles and Somerset, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Camponotus dromas*** Santschi, 1919

***Camponotus (Myrmocamelus) dromas*** Santschi, F. (1919). Cinq notes myrmécologiques. *Bull. Soc. Vaud. Sci. Nat.* **52**: 325–350 [332]. Type data: syntypes, BNHM W,M, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus ephippium*** (F. Smith, 1858)

***Camponotus ephippium ephippium*** (F. Smith, 1858)

***Formica ephippium*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London: British Museum 216 pp. 14 pls [27 Mar. 1858] [39]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Adelaide, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland; nest in soil.

***Camponotus ephippium narses*** Forel, 1915

***Camponotus (Myrmocamelus) ephippium narses*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [103]. Type data: syntypes, GMNH W, other syntypes may exist, from Kimberley distr. and Broome, W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland, open forest; nest in soil.

***Camponotus eremicus*** Wheeler, 1915

***Camponotus (Myrmogonia) eremicus*** Wheeler, W.M. (1915). Hymenoptera. *Trans. R. Soc. S. Aust.* **39**: 805–823 pls 64–66 [Dec. 1915] [815]. Type data: syntypes, MCZ \*W, from Everard Range, S.A.

Distribution: W plateau, S.A. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland; nest in soil.

***Camponotus erythropus*** Viehmeyer, 1925

***Camponotus (Myrmosaga) erythropus*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 139–149 [141]. Type data: syntypes, ZMB \*W,F, from Liverpool, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus esau*** Forel, 1915

***Camponotus (Myrmocamelus) esau*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [103]. Type data: syntypes, GMNH W, other syntypes may exist, from Cedar Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.



***Camponotus evae*** Forel, 1910

***Camponotus evae evae*** Forel, 1910

***Camponotus evae*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [74]. Type data: syntypes, GMNH W, ANIC W, from Cape York, Qld.

Distribution: N Gulf, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Camponotus evae zeuxis*** Forel, 1915

***Camponotus (Myrmogonia) evae zeuxis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [101]. Type data: syntypes, GMNH W, other syntypes may exist, from Broome, W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus extensus*** Mayr, 1876

***Camponotus extensus*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [65]. Type data: syntypes, NHMW W, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus fictor*** Forel, 1902

***Camponotus fictor fictor*** Forel, 1902

***Camponotus (Colobopsis) fictor*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [509]. Type data: syntypes, GMNH W, ANIC W, from New Castle (=Newcastle) and Native Dog Bore, N.S.W.

Distribution: SE coastal, Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

***Camponotus fictor augustulus*** Viehmeyer, 1925

***Camponotus (Colobopsis) fictor augustulus*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 139–149 [145] [introduced as *victor*]. Type data: syntypes, ZMB \*W,F, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

***Camponotus fieldeae*** Forel, 1902

***Camponotus fieldeae*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [495]. Type data: syntypes, GMNH W, ANIC W, from Charters Towers, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus fieldellus*** Forel, 1910

***Camponotus fieldellus*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [79]. Type data: syntypes, GMNH W,F, ANIC W, from Tennant Creek, N.T.

Distribution: W plateau, N.T. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland; nest in ground layer.

***Camponotus froggatti*** Forel, 1902

***Camponotus froggatti*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [504]. Type data: syntypes, GMNH W, ANIC W, from Wollongbar, Richmond River, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus gasseri*** (Forel, 1894)

***Camponotus gasseri gasseri*** (Forel, 1894)

***Colobopsis gasseri*** Forel, A. (1894). Quelques fourmis de Madagascar (récoltées par M. le Dr. Völtzkow); de Nouvelle Zélande (récoltées par M. W.W. Smith); de Nouvelle Calédonie (récoltées par M. Sommer); de Queensland (Australie) récoltées par M. Wiederkehr; et de Perth (Australie occidentale) récoltées par M. Chase. *Ann. Soc. Entomol. Belg.* **38**: 226–237 [233]. Type data: syntypes, GMNH W, from Perth, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

***Camponotus gasseri caloratus*** Wheeler, 1934

***Camponotus (Colobopsis) gasseri caloratus*** Wheeler, W.M. (1934). Contributions to the fauna of Rottneest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* **20**: 137–163 [5 Oct. 1934] [162]. Type data: syntypes, MCZ \*W,F,M, from near Government House, Rottneest Is., W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

***Camponotus gasseri lysias*** Forel, 1913

***Camponotus (Colobopsis) gasseri lysias*** Forel, A. (1913). Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* **49**: 173–196 pl 2 [193]. Type data: syntypes, GMNH W, from Ulverstone, Tas.

Distribution: Tas. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

***Camponotus gasseri obtusitruncatus* Forel, 1902**

***Camponotus (Colobopsis) gasseri obtusitruncatus*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [508]. Type data: syntypes, GMNH W,F,M, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

***Camponotus gibbinotus* Forel, 1902**

***Camponotus gibbinotus*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [498]. Type data: syntypes, GMNH W, from Kalgoorlie, W.A.

Distribution: W plateau, W.A. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland; nest in soil.

***Camponotus gouldianus* Forel, 1922**

***Camponotus gouldianus*** Forel, A. (1922). Glanures myrmécologiques en 1922. *Rev. Suisse Zool.* **30**: 87–102 [100]. Type data: syntypes, GMNH W, from Sea Lake, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus hartogi* Forel, 1902**

***Camponotus hartogi*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [500]. Type data: holotype (probable), GMNH W, from Yarra distr., Vic.

***Camponotus (Myrmosaga) ferruginipes*** Crawley, W.C. (1922). in Poulton, E.B. & Crawley, W.C. (1922). Notes on some Australian ants. *Entomol. Mon. Mag.* (3) **8**: 118–126 [125]. Type data: holotype, possibly OUM, from near Healesville, Vic.

Synonymy that of Brown, W.L. jr. (1956). Some synonymies in the ant genus *Camponotus*. *Psyche Camb.* **63**: 38–40 [40].

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus horni* W.F. Kirby, 1896**

***Camponotus horni*** Kirby, W.F. (1896). Hymenoptera. pp 203–209 in Spencer, B. (ed.) *Report on the work of the Horn Scientific Expedition to Central Australia*. Melbourne : Melville, Mullen & Slade Pt. 1 supplement [205]. Type data: syntypes, BMNH (probable) \*W,F, from Palm Creek, N.T.

Distribution: Lake Eyre basin, N.T. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus howensis* Wheeler, 1927**

***Camponotus (Colobopsis) howensis*** Wheeler, W.M. (1927). The ants of Lord Howe Island and Norfolk Island. *Proc. Am. Acad. Arts Sci.* **62**: 121–153 [152]. Type data: syntypes, MCZ \*W, from Lord Howe Is.

Distribution: Lord Howe Is. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

***Camponotus inflatus* Lubbock, 1880**

***Camponotus inflatus*** Lubbock, J. (1880). Observations on Ants, Bees and Wasps; With a Description of a New Species of Honey-Ant. Part vii. *Ants. J. Linn. Soc. Zool.* **15**: 167–187 [3 Sept. 1880] [186 pl 8]. Type data: syntypes (probable), BMNH (probable) \*W, from Adelaide, S.A.

***Camponotus (Myrmamblys) aurofasciatus*** Wheeler, W.M. (1915). Hymenoptera. *Trans. R. Soc. S. Aust.* **39**: 805–823 pls 64–66 [Dec. 1915] [817]. Type data: syntypes, MCZ \*W, from Musgrave Ranges and Moorilyanna, S.A.

Synonymy that of Emery, C. (1925). Hymenoptera Fam. Formicidae subfam. Formicinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 183 302 pp. 4 pls [111].

Distribution: S Gulfs, W plateau, Lake Eyre basin, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in soil.

***Camponotus innexus* Forel, 1902**

***Camponotus innexus*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [499]. Type data: syntypes, GMNH W,F,M, ANIC W, from Bong Bong, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus insipidus* Forel, 1893**

***Camponotus insipidus*** Forel, A. (1893). Nouvelles fourmis d'Australie et des Canaries. *Ann. Soc. Entomol. Belg.* **37**: 454–466 [454]. Type data: holotype (probable), GMNH W, from East Wallaby Is., W.A.

Distribution: W coast, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Camponotus intrepidus* (W. Kirby, 1818)**

***Camponotus intrepidus intrepidus*** (W. Kirby, 1818)

***Formica intrepida*** Kirby, W. (1818). A description of several new species of insects collected in New Holland by Robert Brown, Esq., F.R.S., Lib. Linn. Soc. *Trans. Linn. Soc. Lond.* **12**: 454–482 pls 21–23 [477]. Type data: uncertain, BMNH \*W, from Port Jackson, N.S.W.

***Formica agilis*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum

216 pp. 14 pls [27 Mar. 1858] [37]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*W, from Australia (as New Holland).

***Camponotus magnus*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* 12: Abhand. 649–776 [673 pl 19]. Type data: syntypes, NHMW \*W, from Sidney (=Sydney) and Australia (as New Holland).

Synonymy that of Emery, C. (1925). Hymenoptera Fam. Formicidae subfam. Formicinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 183 302 pp. 4 pls [114].

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus intrepidus bellicosus*** Forel, 1902

***Camponotus intrepidus bellicosus*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [493]. Type data: syntypes, GMNH W, ANIC W, from Sydney, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus janeti*** Forel, 1895

***Camponotus janeti*** Forel, A. (1895). Nouvelles fourmis d'Australie, récoltée à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* 39: 417–428 [417]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus latrunculus*** Wheeler, 1915

***Camponotus latrunculus latrunculus*** Wheeler, 1915

***Camponotus (Myrmoturba) latrunculus*** Wheeler, W.M. (1915). Hymenoptera. *Trans. R. Soc. S. Aust.* 39: 805–823 pls 64–66 [Dec. 1915] [814]. Type data: holotype, MCZ \*W, from Todmorden, S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland; nest in soil.

***Camponotus latrunculus victoriensis*** Santschi, 1928

***Camponotus (Myrmoturba) latrunculus victoriensis*** Santschi, F. (1928). Nouvelles fourmis d'Australie. *Bull. Soc. Vaud. Sci. Nat.* 56: 465–483 [30 Aug. 1928] [479]. Type data: syntypes, BNHM W,M, from Elsternwick and Belgrave, Vic., see The Zoological Society of London (1929). *The Zoological Record*. Vol. 65 relating chiefly to the year 1928. London: Gurney & Jackson.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus leae*** Wheeler, 1915

***Camponotus (Myrmosphincta) leae*** Wheeler, W.M. (1915). Hymenoptera. *Trans. R. Soc. S. Aust.* 39: 805–823 pls 64–66 [Dec. 1915] [819]. Type data: syntypes, MCZ \*W, from Flat Rock Hole in the Musgrave Ranges, S.A.

Distribution: W plateau, S.A. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland, open forest; nest in soil.

***Camponotus lividicoxis*** Viehmeyer, 1925

***Camponotus (Myrmophyma) lividicoxis*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* 14: 139–149 [142]. Type data: syntypes (probable), ZMB \*W, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus lownei*** Forel, 1895

***Formica nitida*** Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* 2: 275–280 [277] [*non Formica nitida* F. Smith, 1858]. Type data: holotype, BMNH (probable) \*W, from Sidney (=Sydney), N.S.W.

***Camponotus lownei*** Forel, A. (1895). Nouvelles fourmis de diverses provenances, surtout d'Australie. *Ann. Soc. Entomol. Belg.* 39: 41–49 [43] [*nom. nov.* for *Formica nitida* Lowne, 1865].

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus maculatus*** (Fabricius, 1781)

***Formica maculata*** Fabricius, J.C. (1781). *Species Insectorum exhibentes eorum Differentias específicas, Synonyma auctorum, Loca Natalia, Metamorphosis adiectis observationibus, Descriptionibus*. Hamburgi et Kilonii: C.E. Bohnii Vol. 1 [491]. Type data: status unknown, ?BMNH, from "Africa Aequinoctiale".

***Camponotus maculatus humilior*** Forel, 1902

***Camponotus maculatus humilior*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [497]. Type data: syntypes, GMNH W, ANIC W, from Cairns, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Camponotus michaelsoni*** Forel, 1907

***Camponotus michaelsoni*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelson, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena: G. Fischer Vol. 1



[303]. Type data: syntypes, GMNH W, from Mundaring Weir, Jarrahdale, Gooseberry Hill and Pickering Brook, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus midas* Froggatt, 1896**

***Camponotus midas*** Froggatt, W.W. (1896). Honey ants. pp. 385–392 in Spencer, B. (ed.) *Report on the work of the Horn Scientific Expedition to Central Australia*. Melbourne : Melville, Mullen & Slade Pt. 2 Zoology [390 pl 27]. Type data: syntypes, AM W,F,M, from Illamurta in the James Range, N.T.

Distribution: Lake Eyre basin, N.T. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland, open forest; nest in soil.

***Camponotus molossus* Forel, 1907**

***Camponotus molossus*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [306]. Type data: syntypes, GMNH W, ANIC W, from Buckland Hill and Serpentine, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus myopor* Clark, 1938**

***Camponotus (Tanaemyrmex) myopor*** Clark, J. (1938). Reports of the McCoy Society for Field Investigation and Research. No. 2. Sir Joseph Bank Islands. Part I. Formicidae (Hymenoptera). *Proc. R. Soc. Vict.* **50**: 356–382 [379]. Type data: syntypes, NMV \*W, from Reevesby Is., S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in soil.

***Camponotus nigriceps* (F. Smith, 1858)**

***Camponotus nigriceps nigriceps* (F. Smith, 1858)**

***Formica nigriceps*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [38]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Australia.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Camponotus nigriceps clarior* Forel, 1902**

***Camponotus nigriceps clarior*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [506]. Type data: syntypes, GMNH W, from Bendigo, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Camponotus nigriceps lividipes* Emery, 1887**

***Camponotus nigriceps lividipes*** Emery, C. (1887). Catalogo delle formiche esistenti nelle collezioni del Museo Civico di Genova. Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **25**: 209–258 pls 3–4 [211]. Type data: syntypes, MCG \*W, from Adelaide, S.A. and Qld.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Camponotus nigriceps obniger* Forel, 1902**

***Camponotus nigriceps obniger*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [506]. Type data: syntypes, GMNH W, ANIC W, from S.A.

Distribution: S Gulfs, W plateau, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Camponotus nigriceps pallidiceps* Emery, 1887**

***Camponotus nigriceps pallidiceps*** Emery, C. (1887). Catalogo delle formiche esistenti nelle collezioni del Museo Civico di Genova. Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **25**: 209–258 pls 3–4 [211]. Type data: syntypes, MCG \*W,F, from Mt. Victoria and Blue Mts., N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Camponotus nigroaeneus* (F. Smith, 1858)**

***Camponotus nigroaeneus nigroaeneus* (F. Smith, 1858)**

***Formica nigroaenea*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London : British Museum 216 pp. 14 pls [27 Mar. 1858] [40]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Melbourne, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus nigroaeneus divus* Forel, 1907**

***Camponotus nigroaeneus divus*** Forel, A. (1907). Formicides du Musée National Hongrois. *Ann. Hist.-Nat. Mus. Natl. Hung.* **5**: 1–42 [30 June 1907] [34]. Type data: syntypes (probable), probably in GMNH or MNH, from Mt. Victoria, Blue Mts., N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus nitidiceps* Viehmeyer, 1925**

***Camponotus (Myrmophyma) nitidiceps*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 139–149 [141]. Type data: syntypes, ZMB \*W,F, from Liverpool and Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus novaehollandiae* Mayr, 1870**

***Camponotus novaehollandiae*** Mayr, G.L. (1870). Neue Formiciden. *Verh. Zool.-Bot. Ges. Wien* **20**: Abhand. 939–996 [31 Dec. 1870] [939]. Type data: syntypes, NHMW W, from Cape York, Qld.

Distribution: N Gulf, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Camponotus oetkeri* Forel, 1910**

***Camponotus oetkeri oetkeri* Forel, 1910**

***Camponotus oetkeri*** Forel, A. (1910). Formicides australiens regus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [75]. Type data: syntypes, GMNH W, ANIC W, from Tennant Creek, N.T.

Distribution: W plateau, N.T. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland; nest in soil.

***Camponotus oetkeri voltai* Forel, 1913**

***Camponotus (Myrmogonia) oetkeri voltai*** Forel, A. (1913). Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* **49**: 173–196 pl 2 [191]. Type data: syntypes, GMNH W, from Tas.

Distribution: Tas. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus oxleyi* Forel, 1902**

***Camponotus oxleyi*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [501]. Type data: syntypes, GMNH W, ANIC W, from Bong Bong, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus pallax* Santschi, 1919**

***Camponotus (Myrmocamelus) pallax*** Santschi, F. (1919). Cinq notes myrmécologiques. *Bull. Soc. Vaud. Sci. Nat.* **52**: 325–350 [330]. Type data: syntypes, BNHM W, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus postcornutus* Clark, 1930**

***Camponotus (Tanaemyrmex) postcornutus*** Clark, J. (1930). Some new Australian Formicidae. *Proc. R. Soc. Vict.* **42**: 116–128 [10 Mar. 1930] [121]. Type data: syntypes, NMV \*W, from Bungulla, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in soil.

***Camponotus punctiventris* Emery, 1920**

***Camponotus (Myrmogonia) punctiventris*** Emery, C. (1920). Studi sui *Camponotus*. *Boll. Soc. Entomol. Ital.* **52**: 1–49 [6 Dec. 1920] [31]. Type data: holotype, MCG \*W, from Kamerunga, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus reticulatus* Roger, 1863**

***Camponotus reticulatus*** Roger, J. (1863). Die neu aufgeführten Gattungen und Arten meines Formiaden-Verzeichnisses. *Berl. Entomol. Z.* **7**: 129–214 [139]. Type data: status unknown, ?ZMB, from Manilla (Philippines?).

***Camponotus reticulatus mackayensis* Forel, 1902**

***Camponotus reticulatus mackayensis*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [506]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus rubiginosus* Mayr, 1876**

***Camponotus rubiginosus*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [66]. Type data: syntypes, whereabouts unknown, from Peak Downs, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

***Camponotus rufus* Crawley, 1925**

***Camponotus (Dinomyrmex) rufus* Crawley, W.C. (1925).** New ants from Australia. II. *Ann. Mag. Nat. Hist.* (9) **16**: 577–598 [596]. Type data: syntypes, OUM \*W,F, from W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus sanguinea* McAreavey, 1949**

***Camponotus (Myrmogonia) sanguinea* McAreavey, J.J. (1949).** Australian Formicidae. New genera and species. *Proc. Linn. Soc. N.S.W.* **74**: 1–25 [15 June 1949] [18]. Type data: holotype, ANIC W, from Broome, W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland; nest in ground layer.

***Camponotus sanguifrons* Viehmeyer, 1925**

***Camponotus (Colobopsis) sanguifrons* Viehmeyer, H. (1925).** Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 139–149 [143]. Type data: syntypes, ZMB \*W, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

***Camponotus scratius* Forel, 1907*****Camponotus scratius scratius* Forel, 1907**

***Camponotus scratius* Forel, A. (1907).** Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [304]. Type data: syntypes, GMNH W,F, ANIC W, from Buckland Hill and Fremantle, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus scratius nuntius* Forel, 1907**

***Camponotus scratius nuntius* Forel, A. (1907).** Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [306]. Type data: holotype, probably destroyed in ZMH in WW II, from Dirk Hartog Brown Station, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland; nest in soil.

***Camponotus semicarinatus* (Forel, 1895)**

***Colobopsis rufifrons semicarinata* Forel, A. (1895).** Nouvelles fourmis d'Australie, récoltée à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* **39**: 417–428 [418]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer. Biological references: Emery, C. (1925). Hymenoptera Fam. Formicidae subfam. Formicinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 183 302 pp. 4 pls (raised to species).

***Camponotus simulator* Forel, 1915**

***Camponotus (Dinomyrmex) simulator* Forel, A. (1915).** Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3. [4 Dec. 1915] [96]. Type data: syntypes, GMNH W, other syntypes may exist, from Atherton and Herberton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus spenceri* Clark, 1930**

***Camponotus reticulatus* Kirby, W.F. (1896).** Hymenoptera. pp. 203–209 in Spencer, B. (ed.) *Report on the work of the Horn Scientific Expedition to Central Australia*. Melbourne : Melville, Mullen & Slade Pt. 1 supplement [204] [*non Camponotus reticulatus* Roger, 1863]. Type data: syntypes, BMNH (probable) \*W, from Paisley Bluff, N.T.

***Camponotus (Tanaemyrmex) spenceri* Clark, J. (1930).** New Formicidae, with notes on some little-known species. *Proc. R. Soc. Vict.* **43**: 2–25 [30 Aug. 1930] [18] [*nom. nov.* for *Camponotus reticulatus* W.F. Kirby, 1896].

Distribution: Lake Eyre basin, N.T. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland; nest in soil.

***Camponotus spinitarsus* Emery, 1920**

***Camponotus (Dinomyrmex) spinitarsus* Emery, C. (1920).** Studi sui *Camponotus*. *Boll. Soc. Entomol. Ital.* **52**: 1–49 [6 Dec. 1920] [22]. Type data: holotype, MCG \*W, from Cooktown, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus sponsorum* Forel, 1910**

***Camponotus sponsorum* Forel, A. (1910).** Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [76]. Type data: syntypes, GMNH W,M, ANIC W, from Tennant Creek, N.T.

Distribution: W plateau, N.T. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland; nest in soil.



*Camponotus subnitidus* Mayr, 1876

*Camponotus subnitidus subnitidus* Mayr, 1876

*Camponotus subnitidus* Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* 5: 56–115 [65]. Type data: syntypes, NHMW W, from Peak Downs, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Camponotus subnitidus famelicus* Emery, 1887

*Camponotus subnitidus famelicus* Emery, C. (1887). Catalogo delle formiche esistenti nelle collezioni del Museo Civico di Genova. Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* 25: 209–258 pls 3–4 [214]. Type data: syntypes, MCG \*W, from Adelaide, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Camponotus subnitidus longinodis* Forel, 1915

*Camponotus (Dinomyrmex) subnitidus longinodis* Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [96]. Type data: syntypes, whereabouts unknown, from Cape York Peninsula, Qld.

Distribution: N Gulf, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in ground layer.

*Camponotus suffusus* (F. Smith, 1858)

*Camponotus suffusus suffusus* (F. Smith, 1858)

*Formica suffusa* Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London: British Museum 216 pp. 14 pls [27 Mar. 1858] [38]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*F, from Australia.

*Formica piliventris* Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London: British Museum 216 pp. 14 pls [27 Mar. 1858] [39]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*W, from S.A.

*Camponotus schencki* Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* 12: Abhand. 649–776 [674 pl 19]. Type data: uncertain, whereabouts unknown, from Australia (as New Holland).

Synonymy that of Emery, C. (1925). Hymenoptera Fam. Formicidae subfam. Formicinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 183 302 pp. 4 pls [114].

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Camponotus suffusus bendigensis* Forel, 1902

*Camponotus suffusus bendigensis* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [493]. Type data: syntypes, GMNH W, from Bendigo, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Camponotus tasmani* Forel, 1902

*Camponotus tasmani* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [503]. Type data: syntypes, GMNH W, ANIC W, from S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Camponotus testaceipes* (F. Smith, 1858)

*Formica testaceipes* Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London: British Museum 216 pp. 14 pls [27 Mar. 1858] [39]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*W, from King George's Sound (=King George Sound), W.A.

*Formica terebrans* Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* 2: 275–280 [278]. Type data: syntypes, BMNH (probable) \*W,F, from Sidney (=Sydney), N.S.W.

*Camponotus (Myrmophyma) darlingtoni* Wheeler, W.M. (1934). Contributions to the fauna of Rottnest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* 20: 137–163 [5 Oct. 1934] [160]. Type data: syntypes, MCZ \*W,F, from Longreach Bay and Government House, Rottnest Is. and Kings Park, Perth and Margaret River, W.A.

*Camponotus (Myrmophyma) rottnesti* Donisthorpe, H. (1941). Synonymical notes, etc., on Formicidae (Hym.). *Entomol. Mon. Mag.* 77: 237–240 [1 Oct. 1941] [239] [unnecessarily proposed *nom. nov.* for *Camponotus (Myrmophyma) darlingtoni* Wheeler, 1934].

Synonymy that of Emery, C. (1925). Hymenoptera Fam. Formicidae subfam. Formicinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 183 302 pp. 4 pls [102]; Brown, W.L. jr. (1956). Some synonymies in the ant genus *Camponotus*. *Psyche Camb.* 63: 38–40 [39].

Distribution: SE coastal, SW coastal, N.S.W., W.A.  
Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in soil.

***Camponotus tricoloratus*** Clark, 1941

***Camponotus (Tanaemyrmex) tricoloratus*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* **12**: 71–94 [90 pl 13]. Type data: syntypes, NMV \*W, from near Mildura, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland, open forest; nest in ground layer.

***Camponotus tristis*** Clark, 1930

***Camponotus (Myrmophyma) tristis*** Clark, J. (1930). Some new Australian Formicidae. *Proc. R. Soc. Vict.* **42**: 116–128 [10 Mar. 1930] [124]. Type data: syntypes, NMV \*W, from Eradu, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus tumidus*** Crawley, 1922

***Camponotus (Myrmogonia) tumidus*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **10**: 16–36 [35]. Type data: syntypes, OUM \*W, from Byford, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus versicolor*** Clark, 1930

***Camponotus (Myrmosaulus) versicolor*** Clark, J. (1930). Some new Australian Formicidae. *Proc. R. Soc. Vict.* **42**: 116–128 [10 Mar. 1930] [122]. Type data: syntypes, NMV \*W, from Emu Rocks, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in soil.

***Camponotus villosus*** Crawley, 1915

***Camponotus (Myrmoturba) villosa*** Crawley, W.C. (1915). Ants from north and central Australia, collected by G.F. Hill. Part I. *Ann. Mag. Nat. Hist.* (8) **15**: 130–136 [135]. Type data: syntypes, BMNH \*W, from Batchelor, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland; nest in soil.

***Camponotus vitreus*** (F. Smith, 1860)

***Formica vitrea*** Smith, F. (1860). Catalogue of hymenopterous insects collected by Mr A.R. Wallace in the islands of Bachian, Kaisaa, Amboyne, Gilolo, and at Dory in New Guinea. *J. Linn. Soc. Zool.* **5**: 93–143 pl 1 [18 July 1860] [94]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of

two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Bachian, Indonesia.

***Prenolepis adlerzii*** Forel, A. (1886). Études myrmécologiques en 1886. *Ann. Soc. Entomol. Belg.* **30**: 131–215 [209]. Type data: syntypes (probable), GMNH \*W, from Darnley Is., Qld.

Synonymy that of Emery, C. (1925). Hymenoptera Fam. Formicidae subfam. Formicinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 183 302 pp. 4 pls [148].

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus walkeri*** Forel, 1893

***Camponotus walkeri walkeri*** Forel, 1893

***Camponotus walkeri*** Forel, A. (1893). Nouvelles fourmis d'Australie et des Canaries. *Ann. Soc. Entomol. Belg.* **37**: 454–466 [454]. Type data: syntypes, GMNH W, from Baudin Is., W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland; nest in ground layer.

***Camponotus walkeri bardus*** Forel, 1910

***Camponotus walkeri bardus*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [73]. Type data: holotype, GMNH W, from Perth, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Camponotus whitei*** Wheeler, 1915

***Camponotus (Myrmosphincta) whitei*** Wheeler, W.M. (1915). Hymenoptera. *Trans. R. Soc. S. Aust.* **39**: 805–823 pls 64–66 [Dec. 1915] [818]. Type data: syntypes, MCZ \*W, from Flat Rock Hole in the Musgrave Ranges, S.A.

***Camponotus (Myrmosaulus) scutellus*** Clark, J. (1930). Some new Australian Formicidae. *Proc. R. Soc. Vict.* **42**: 116–128 [10 Mar. 1930] [123]. Type data: syntypes, NMV \*W, from Tammin, Emu Rocks, Bungulla and Merredin, W.A.

Synonymy that of Brown, W.L. jr. (1956). Some synonymies in the ant genus *Camponotus*. *Psyche Camb.* **63**: 38–40 [40].

Distribution: W plateau, SW coastal, S.A., W.A. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland; nest in soil.

***Camponotus wiederkehri*** Forel, 1894

***Camponotus wiederkehri wiederkehri*** Forel, 1894

***Camponotus wiederkehri*** Forel, A. (1894). Quelques fourmis de Madagascar (récoltées par M. le Dr. Völtzkow); de Nouvelle Zélande (récoltées par M. W.W. Smith); de Nouvelle Calédonie (récoltées par M.

Sommer); de Queensland (Australie) récoltées par M. Wiederkehr; et de Perth (Australie occidentale) récoltées par M. Chase. *Ann. Soc. Entomol. Belg.* **38**: 226–237 [232]. Type data: syntypes, GMNH W, ANIC W, from Charters Towers, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Camponotus wiederkehri lucidior* Forel, 1910**

***Camponotus wiederkehri lucidior*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [81]. Type data: syntypes, GMNH W,M, ANIC W, from Tennant Creek, N.T.

Distribution: W plateau, N.T. Ecology: terrestrial, nocturnal, omnivore, desert, woodland, open forest; nest in soil.

***Echinopla* F. Smith, 1857**

***Echinopla*** Smith, F. (1857). Catalogue of the hymenopterous insects collected at Sarawak, Borneo, Mount Ophir, Malacca; and at Singapore by A. R. Wallace. *J. Linn. Soc. Zool.* **2**: 42–130 [2 Nov. 1857] [79 pls 1–2]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist. (10)* **10**: 441–476. Type species *Echinopla melanarctos* F. Smith, 1857 by subsequent designation, see Wheeler, W. M. (1911). A list of the type species of the genera and subgenera of Formicidae. *Ann. N.Y. Acad. Sci.* **21**: 157–175 [17 Oct. 1911].

This group is also found in the Oriental Region; New Guinea in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Echinopla australis* Forel, 1901**

***Echinopla australis*** Forel, A. (1901). Formiciden des Naturhistorischen Museums zu Hamburg. Neue *Calyptomyrmex*-, *Dacryon*-, *Podomyrma*-, und *Echinopla*-Arten. *Mitt. Naturh. Mus. Hamb.* **18**: 45–82 [75]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, omnivore, closed forest; nest arboreal.

***Echinopla turneri* Forel, 1901**

***Echinopla turneri turneri* Forel, 1901**

***Echinopla turneri*** Forel, A. (1901). Formiciden des Naturhistorischen Museums zu Hamburg. Neue *Calyptomyrmex*-, *Dacryon*-, *Podomyrma*-, und

*Echinopla*-Arten. *Mitt. Naturh. Mus. Hamb.* **18**: 45–82 [76]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, omnivore, closed forest; nest arboreal.

***Echinopla turneri pictipes* Forel, 1901**

***Echinopla turneri pictipes*** Forel, A. (1901). Formiciden des Naturhistorischen Museums zu Hamburg. Neue *Calyptomyrmex*-, *Dacryon*-, *Podomyrma*-, und *Echinopla*-Arten. *Mitt. Naturh. Mus. Hamb.* **18**: 45–82 [76]. Type data: syntypes, GMNH W,F, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, omnivore, closed forest; nest arboreal.

***Melophorus* Lubbock, 1883**

***Melophorus*** Lubbock, J. (1883). Observations on Ants, Bees and Wasps - Part X. With a Description of a New Genus of Honey-Ant. *J. Linn. Soc. Zool.* **17**: 41–52 [17 Apr. 1883] [51 pl 2]. Type species *Melophorus bagoti* Lubbock, 1883 by monotypy.

***Erimephorus*** Wheeler, W.M. (1935). Myrmecological notes. *Psyche Camb.* **42**: 68–72 [71] [proposed with subgeneric rank in *Melophorus* Lubbock, 1883]. Type species *Melophorus wheeleri* Forel, 1910 by original designation.

***Trichomelophorus*** Wheeler, W.M. (1935). Myrmecological notes. *Psyche Camb.* **42**: 68–72 [71] [proposed with subgeneric rank in *Melophorus* Lubbock, 1883]. Type species *Melophorus hirsutus* Forel, 1902 by original designation.

Synonymy that of Brown, W.L. jr. (1955). A revision of the Australian ant genus *Notoncus* Emery, with notes on the other genera of Melophorini. *Bull. Mus. Comp. Zool.* **113**: 469–494 [474].

***Melophorus aeneovirens* (Lowne, 1865)**

***Formica aeneovirens*** Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* **2**: 275–280 [276]. Type data: syntypes, BMNH (probable) \*W, from Port Jackson, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, omnivore, granivore, tussock grassland, woodland, open forest; nest in soil.

***Melophorus bagoti* Lubbock, 1883**

***Melophorus bagoti*** Lubbock, J. (1883). Observations on Ants, Bees and Wasps. - Part X. With a Description of a New Genus of Honey-Ant. *J. Linn. Soc. Zool.* **17**: 41–52 [17 Apr. 1883] [52 pl 2 figs 1–10]. Type data: syntypes (probable), BMNH (probable) \*W, from Australia (lat. 21 S) [*sic*].

Distribution: W plateau, Lake Eyre basin, W.A., S.A., Qld., N.S.W. Ecology: terrestrial, nocturnal, omnivore, granivore, desert, hummock grassland, woodland; nest in soil.



***Melophorus biroi* Forel, 1907**

***Melophorus biroi*** Forel, A. (1907). Formicides du Musée National Hongrois. *Ann. Hist.- Nat. Mus. Natl. Hung.* **5**: 1-42 [30 June 1907] [29]. Type data: syntypes (probable), probably in GMNH or MNH, from Mt. Victoria, Blue Mts., N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, granivore, woodland, open forest; nest in soil.

***Melophorus bruneus* McAreavey, 1949**

***Melophorus (Melophorus) brunea*** McAreavey, J.J. (1949). Australian Formicidae. New genera and species. *Proc. Linn. Soc. N.S.W.* **74**: 1-25 [15 June 1949] [20]. Type data: holotype, ANIC W, from Nyngan, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, granivore, desert, woodland; nest in soil.

***Melophorus constans* Santschi, 1928**

***Melophorus constans*** Santschi, F. (1928). Nouvelles fourmis d'Australie. *Bull. Soc. Vaud. Sci. Nat.* **56**: 465-483 [30 Aug. 1928] [475]. Type data: syntypes, BNHM W,F, from Idatle Glen, Vic.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, granivore, tussock grassland, woodland, open forest; nest in soil.

***Melophorus curtus* Forel, 1902**

***Melophorus curtus*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405-548 [485]. Type data: syntypes, GMNH W,F, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, granivore, tussock grassland, woodland, open forest; nest in soil.

***Melophorus fieldi* Forel, 1910*****Melophorus fieldi fieldi* Forel, 1910**

***Melophorus fieldi*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1-94 [62]. Type data: holotype, GMNH W, from Tennant Creek, N.T.

Distribution: W plateau, N.T. Ecology: terrestrial, noctidiurnal, omnivore, granivore, desert, hummock grassland, woodland; nest in soil.

***Melophorus fieldi major* Forel, 1915**

***Melophorus fieldi major*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910-1913. 2. Ameisen. *Ark. Zool.* **9**: 1-119 pls 1-3 [4 Dec. 1915] [87]. Type data: syntypes, GMNH W, other syntypes may exist, from Kimberley distr., W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, granivore, desert, woodland; nest in soil.

***Melophorus fieldi propinqua* Viehmeyer, 1925**

***Melophorus fieldi propinqua*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 25-39 [36]. Type data: syntypes, ZMB \*W, from Liverpool, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, granivore, woodland, open forest; nest in soil.

***Melophorus fulvihirtus* Clark, 1941**

***Melophorus fulvihirtus*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* **12**: 71-94 [88 pl 13]. Type data: syntypes, NMV \*W, from Patho, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, omnivore, granivore, woodland, open forest; nest in soil.

***Melophorus hirsutus* Forel, 1902**

***Melophorus hirsutus*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405-548 [488]. Type data: syntypes, GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, granivore, tussock grassland, woodland, open forest.

***Melophorus insularis* Wheeler, 1934**

***Melophorus insularis*** Wheeler, W.M. (1934). Contributions to the fauna of Rottneest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* **20**: 137-163 [5 Oct. 1934] [151]. Type data: syntypes, MCZ \*W, from White Hill and City of York Bay, Rottneest Is., W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, granivore, woodland; nest in soil.

***Melophorus iridescens* (Emery, 1887)*****Melophorus iridescens iridescens* (Emery, 1887)**

***Myrmecocystus iridescens*** Emery, C. (1887). Catalogo delle formiche esistenti nelle collezioni del Museo Civico di Genova. Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **25**: 209-258 pls 3-4 [247]. Type data: syntypes, MCG \*W, from Mt. Victoria, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, granivore, tussock grassland, woodland, open forest; nest in soil.

***Melophorus iridescens fraudatrix* Forel, 1915**

***Melophorus iridescens fraudatrix*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific

Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [87]. Type data: syntypes, GMNH W, other syntypes may exist, from Healesville, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, granivore, tussock grassland, woodland, open forest; nest in soil.

***Melophorus iridescens froggatti* Forel, 1902**

***Melophorus iridescens froggatti*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [487]. Type data: syntypes, GMNH W,F, ANIC W, from Sydney, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, granivore, tussock grassland, woodland, open forest; nest in soil.

***Melophorus laticeps* Wheeler, 1915**

***Melophorus laticeps*** Wheeler, W.M. (1915). Hymenoptera. *Trans. R. Soc. S. Aust.* **39**: 805–823 pls 64–66 [Dec. 1915] [813]. Type data: holotype, MCZ \*F, from between Todmorden and Wantapella, S.A.

Distribution: Lake Eyre basin, S.A. Ecology: terrestrial, noctidiurnal, omnivore, granivore, desert, hummock grassland, woodland; nest in soil.

***Melophorus ludius* Forel, 1902**

***Melophorus ludius ludius* Forel, 1902**

***Melophorus ludius*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [484]. Type data: syntypes, GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, granivore, tussock grassland, woodland, open forest; nest in soil.

***Melophorus ludius sulla* Forel, 1910**

***Melophorus ludius sulla*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [66]. Type data: syntypes, GMNH W,F,M, ANIC W, from Tennant Creek, N.T.

Distribution: W plateau, N.T. Ecology: terrestrial, noctidiurnal, omnivore, granivore, hummock grassland, woodland, open forest; nest in soil.

***Melophorus marius* Forel, 1910**

***Melophorus marius*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [66]. Type data: holotype, GMNH W, from Tennant Creek, N.T.

Distribution: W plateau, N.T. Ecology: terrestrial, noctidiurnal, omnivore, granivore, hummock grassland, woodland, open forest; nest in soil.

***Melophorus mjobergi* Forel, 1915**

***Melophorus mjobergi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia

1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [88]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Broome, W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, granivore, woodland, open forest; nest in soil.

***Melophorus omniparens* Forel, 1915**

***Melophorus omniparens*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [85]. Type data: syntypes, GMNH W, other syntypes may exist, from Alice River, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, granivore, tussock grassland, woodland, open forest; nest in soil.

***Melophorus pillipes* Santschi, 1919**

***Melophorus pillipes*** Santschi, F. (1919). Cinq notes myrmécologiques. *Bull. Soc. Vaud. Sci. Nat.* **52**: 325–350 [329]. Type data: syntypes, BNHM W, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, granivore, tussock grassland, woodland, open forest; nest in soil.

***Melophorus potteri* McAreavey, 1947**

***Melophorus potteri*** McAreavey, J.J. (1947). New species of the genera *Prolasius* Forel and *Melophorus* Lubbock (Hymenoptera : Formicidae). *Mem. Natl. Mus. Vict.* **15**: 7–27 [Oct. 1947] [25 pl 1]. Type data: syntypes, NMV \*W,F, from Patho, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, omnivore, granivore, desert, woodland; nest in soil.

***Melophorus scipio* Forel, 1915**

***Melophorus scipio*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [86]. Type data: holotype, whereabouts unknown, from Mt. Bellenden Ker, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, granivore, woodland, open forest; nest in soil.

***Melophorus turneri* Forel, 1910**

***Melophorus turneri turneri* Forel, 1910**

***Melophorus turneri*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [63]. Type data: syntypes, GMNH W, ANIC W, from Cape York, Qld.

Distribution: N Gulf, Qld. Ecology: terrestrial, noctidiurnal, omnivore, granivore, hummock grassland, woodland, open forest; nest in soil.

**Melophorus turneri aesopus** Forel, 1910

**Melophorus turneri aesopus** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [64]. Type data: syntypes, GMNH W,M,F, ANIC W, from Tennant Creek, N.T.

Distribution: W plateau, N.T. Ecology: terrestrial, noctidiurnal, omnivore, granivore, hummock grassland, woodland, open forest; nest in soil.

**Melophorus turneri candidus** Santschi, 1919

**Melophorus turneri candida** Santschi, F. (1919). Cinq notes myrmécologiques. *Bull. Soc. Vaud. Sci. Nat.* **52**: 325–350 [328]. Type data: syntypes, BNHM W, from Vic.

Distribution: (SE coastal), Vic.; type locality as Vic. only. Ecology: terrestrial, noctidiurnal, omnivore, granivore, woodland, open forest; nest in soil.

**Melophorus turneri perthensis** Wheeler, 1934

**Melophorus turneri perthensis** Wheeler, W.M. (1934). Contributions to the fauna of Rottnest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* **20**: 137–163 [5 Oct. 1934] [152]. Type data: syntypes, MCZ \*W, from Rottnest Is., W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, granivore, hummock grassland, woodland, open forest; nest in soil.

**Melophorus wheeleri** Forel, 1910

**Melophorus wheeleri** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [60]. Type data: syntypes, GMNH W,M, ANIC W, from Tennant Creek, N.T.

Distribution: W plateau, N.T. Ecology: terrestrial, noctidiurnal, omnivore, granivore, desert, woodland, open forest; nest in soil.

**Myrmecorhynchus** E. André, 1896

**Myrmecorhynchus** André, E. (1896). Fourmis nouvelles d'Asie et d'Australie. *Rev. Entomol.* **15**: 251–265 [253] [redefined in Wheeler, W.M. (1917). The Australian ant-genus *Myrmecorhynchus* (Ern. André) and its position in the sub-family Camponotinae. *Trans. R. Soc. S. Aust.* **61**: 14–19 pl 1]. Type species *Myrmecorhynchus emeryi* E. André, 1896 by monotypy.

**Myrmecorhynchus carteri** Clark, 1934

**Myrmecorhynchus carteri** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [43 pls 2–3]. Type data: syntypes, NMV \*W, from Barrington Tops, N.S.W. and Kinglake, Vic.

Distribution: SE coastal, Murray-Darling basin, A.C.T., N.S.W., Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

**Myrmecorhynchus emeryi** E. André, 1896

**Myrmecorhynchus emeryi** André, E. (1896). Fourmis nouvelles d'Asie et d'Australie. *Rev. Entomol.* **15**: 251–265 [254]. Type data: holotype, MNHP W, from Victorian Alps.

Distribution: Murray-Darling basin, A.C.T., Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

**Myrmecorhynchus musgravei** Clark, 1934

**Myrmecorhynchus musgravei** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [43 pls 2–3]. Type data: syntypes, AM \*M, from National Park", Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

**Myrmecorhynchus nitidus** Clark, 1934

**Myrmecorhynchus nitidus** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [44 pls 2–3]. Type data: syntypes, NMV \*W,F,M, from Cheltenham, Vic. and Canberra, A.C.T.

Distribution: SE coastal, Murray-Darling basin, Vic., A.C.T. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

**Myrmecorhynchus rufithorax** Clark, 1934

**Myrmecorhynchus rufithorax** Clark, J. (1934). New Australian ants. *Mem. Natl. Mus. Vict.* **8**: 21–47 [46 pls 2–3]. Type data: syntypes, NMV \*W, from Warburton, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

**Notoncus** Emery, 1895

**Notoncus** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [352]. Type species *Camponotus ectatommoides* Forel, 1892 by monotypy.

**Diodontolepis** Wheeler, W.M. (1920). The Subfamilies of Formicidae, and other taxonomic notes. *Psyche Camb.* **27**: 46–55 [53]. Type species *Melophorus spinisquamis* E. André, 1896 by original designation.

Synonymy that of Brown, W.L. jr. (1955). A revision of the Australian ant genus *Notoncus* Emery, with notes on the other genera of Melophorini. *Bull. Mus. Comp. Zool.* **113**: 469–494 [477].

This group is also found in south New Guinea, one species in *Eucalyptus* savanna.

**Notoncus ectatommoides** (Forel, 1892)

**Camponotus ectatommoides** Forel, A. (1892). Die Ameisen Neu-Seelands. *Mitt. Schweiz. Entomol. Ges.* **8**: 331–343 [333]. Type data: holotype, MCG (probable) \*F, from probably (South) Australia, see Brown, W.L. jr.



(1955). A revision of the Australian ant genus *Notoncus* Emery, with notes on the other genera of Melophorini. *Bull. Mus. Comp. Zool.* **113**: 469–494 [480].

*Notoncus foreli* André, E. (1896). Fourmis nouvelles d'Asie et d'Australie. *Rev. Entomol.* **15**: 251–265 [256]. Type data: holotype, MNHP W, from W.A.

*Notoncus foreli subdentata* Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [68]. Type data: syntypes, GMNH W, ANIC W, from Forset Reefs, N.S.W.

*Notoncus foreli dentata* Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [68]. Type data: syntypes, GMNH W, ANIC W, from Gembrook, Vic.

*Notoncus foreli acuminata* Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 25–39 [37]. Type data: syntypes (probable), ZMB \*W, from probably Liverpool or Trial Bay, N.S.W.

*Notoncus rodwayi* Donisthorpe, H. (1941). Descriptions of new ants (Hym., Formicidae) from various localities. *Ann. Mag. Nat. Hist. (11)* **8**: 199–210 [206]. Type data: holotype, BMNH \*F, from Nowra, N.S.W.

Synonymy that of Brown, W.L. jr. (1955). A revision of the Australian ant genus *Notoncus* Emery, with notes on the other genera of Melophorini. *Bull. Mus. Comp. Zool.* **113**: 469–494 [485].

Distribution: SE coastal, NE coastal, Murray-Darling basin, S Gulfs, Qld., S.A., A.C.T., N.S.W., Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Notoncus enormis* Szabó, 1910

*Notoncus enormis* Szabó, J. (1910). Formicides nouveaux ou peu connus des collections du Musée National Hongrois. *Ann. Hist.-Nat. Mus. Natl. Hung.* **8**: 364–369 [368]. Type data: syntypes, NMH \*W, from Mt. Victoria, N.S.W.

*Notoncus capitatus* Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [90]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Mt. Tambourine (=Tamborine Mt.), Qld.

*Notoncus mjobergi* Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [91]. Type data: holotype (probable), whereabouts unknown, from Colosseum, Qld.

*Notoncus capitatus minor* Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 139–149 [139]. Type data: syntypes, ZMB \*W, from probably Liverpool or Trial Bay, N.S.W.

Synonymy that of Brown, W.L. jr. (1955). A revision of the Australian ant genus *Notoncus* Emery, with notes on the other genera of Melophorini. *Bull. Mus. Comp. Zool.* **113**: 469–494 [489].

Distribution: NE coastal, SE coastal, Qld., N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Notoncus gilberti* Forel, 1895

*Notoncus gilberti* Forel, A. (1895). Nouvelles fourmis d'Australie, récoltée à The Ridge, Mackay, Queensland par M. Gilbert Turner. *Ann. Soc. Entomol. Belg.* **39**: 417–428 [418]. Type data: syntypes, GMNH W,F, ANIC W, from Mackay, Qld.

*Notoncus gilberti gracilior* Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena: G. Fischer Vol. 1 [299]. Type data: holotype, probably destroyed in ZMH in WW II, from Fremantle, W.A.

*Notoncus politus* Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 25–39 [38]. Type data: syntypes, ZMB \*W, ANIC W, from Liverpool, N.S.W.

*Notoncus gilberti annectens* Wheeler, W.M. (1934). Contributions to the fauna of Rottnest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* **20**: 137–163 [5 Oct. 1934] [154]. Type data: syntypes, MCZ \*W, from Enoggera, Qld., see Brown, W.L. jr. (1955). A revision of the Australian ant genus *Notoncus* Emery, with notes on the other genera of Melophorini. *Bull. Mus. Comp. Zool.* **113**: 469–494.

Synonymy that of Brown, W.L. jr. (1955). A revision of the Australian ant genus *Notoncus* Emery, with notes on the other genera of Melophorini. *Bull. Mus. Comp. Zool.* **113**: 469–494 [490].

Distribution: NE coastal, SE coastal, SW coastal, Qld., N.S.W., W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Notoncus hickmani* Clark, 1930

*Notoncus hickmani* Clark, J. (1930). Some new Australian Formicidae. *Proc. R. Soc. Vict.* **42**: 116–128 [10 Mar. 1930] [126]. Type data: syntypes, NMV \*W,F, from Trevallyn, Tas.

*Notoncus rotundiceps* Clark, J. (1930). Some new Australian Formicidae. *Proc. R. Soc. Vict.* **42**: 116–128 [10 Mar. 1930] [127]. Type data: syntypes, NMV \*W, from Albany, W.A.

Synonymy that of Brown, W.L. jr. (1955). A revision of the Australian ant genus *Notoncus* Emery, with notes on the other genera of Melophorini. *Bull. Mus. Comp. Zool.* **113**: 469–494 [492].

Distribution: SW coastal, SE coastal, Murray-Darling basin, S Gulfs, W plateau, S.A., Vic., N.S.W., W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Notoncus spinisquamis* (E. André, 1896)

*Melophorus spinisquamis* André, E. (1896). Fourmis nouvelles d'Asie et d'Australie. *Rev. Entomol.* **15**: 251–265 [254]. Type data: syntypes, MNHP W,F,M, ANIC W, from Victorian Alps.

Distribution: Murray-Darling basin, SE coastal, N.S.W., A.C.T., Tas., Vic. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest, closed forest; nest in ground layer.

***Notostigma* Emery, 1920**

***Notostigma*** Emery, C. (1920). Le genre *Camponotus* Mayr. Nouvel essai de sa subdivision en sous-genres. *Rev. Zool. Afr.* 8: 229–260 [252]. Type species *Camponotus carazzii* Emery, 1895 by original designation.

***Notostigma carazzii* (Emery, 1895)**

***Camponotus carazzii*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* 39: 345–358 [354]. Type data: syntypes, MCG \*W, from Mt. Bellenden Ker, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, closed forest; nest in ground layer.

***Notostigma foreli* Emery, 1920**

***Notostigma foreli*** Emery, C. (1920). Le genre *Camponotus* Mayr. Nouvel essai de sa subdivision en sous-genres. *Rev. Zool. Afr.* 8: 229–260 [253]. Type data: syntypes, MCG \*W,F,M, from N.S.W.

Distribution: NE coastal, SE coastal, Qld., N.S.W. Ecology: terrestrial, nocturnal, omnivore, closed forest; nest in soil.

***Notostigma podenzanai* (Emery, 1895)**

***Camponotus podenzanai*** Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* 39: 345–358 [355]. Type data: syntypes, MCG \*W,M, from Kamerunga, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Notostigma sanguinea* Clark, 1930**

***Notostigma sanguinea*** Clark, J. (1930). Some new Australian Formicidae. *Proc. R. Soc. Vict.* 42: 116–128 [10 Mar. 1930] [116]. Type data: syntypes, NMV \*W, from Perth and Ludlow, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Oecophylla* F. Smith, 1860**

***Oecophylla*** Smith, F. (1860). Catalogue of hymenopterous insects collected by Mr. A.R. Wallace in the islands of Bachian, Kaisaa, Amboyna, Gilolo, and at Dory in New Guinea. *J. Linn. Soc. Zool.* 5: 93–143 [18 July 1860] [101 pl 1]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476.

Type species *Formica smaragdina* Fabricius, 1775 by monotypy.

This group is also found in the north Ethiopian and Oriental regions; New Guinea and east Melanesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Oecophylla smaragdina* (Fabricius, 1775)**

***Formica smaragdina*** Fabricius, J.C. (1775). *Systema Entomologiae*, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus. Flensburgi et Lipsiae [Appendix, 828]. Type data: syntypes (probable), whereabouts uncertain, from India.

***Formica virescens*** Fabricius, J.C. (1775). *Systema Entomologiae*, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus. Flensburgi et Lipsiae [392]. Type data: uncertain, BMNH W, from Australia (as New Holland).

***Formica viridis*** Kirby, W. (1818). A description of several new species of insects collected in New Holland by Robert Brown, Esq., F.R.S., Lib. Linn. Soc. *Trans. Linn. Soc. Lond.* 12: 454–482 pls 21–23 [478]. Type data: uncertain, BMNH \*W, from northern Australia.

Synonymy that of Mayr, G.L. (1872). Formicidae Borneenses. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* 2: 134–155 [143].

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, open forest, closed forest; nest arboreal.

***Opisthopsis* Emery, 1893**

***Myrmecopsis*** Smith, F. (1865). Descriptions of new species of hymenopterous insects from the islands of Sumatra, Sula, Gilolo, Salwatty, and New Guinea, collected by Mr A. R. Wallace. *J. Linn. Soc. Zool.* 8: 61–94 [13 Jan. 1865] [68 pl 4] [*non Myrmecopsis* Newman, 1850; proposed with subgeneric rank in *Formica* Linnaeus, 1758]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type species *Formica (Myrmecopsis) respiciens* F. Smith, 1865 by monotypy.

***Opisthopsis*** Emery, C. (1893). in Dalla Torre, C.G. de (1893). *Catalogus hymenopterorum hucusque descriptorum systematicus et synonymicus*. Formicidae (Heterogyna). Lipsiae : G. Engelmann Vol. 7 289 pp. [219] [*nom. nov.* for *Myrmecopsis* F. Smith, 1865].

This group is also found in New Guinea and east Melanesia in the Australian Region.

*Opisthopsis diadematus* Wheeler, 1918

*Opisthopsis diadematus diadematus* Wheeler, 1918

*Opisthopsis diadematus* Wheeler, W.M. (1918). The ants of the genus *Opisthopsis* Emery. *Bull. Mus. Comp. Zool.* **62**: 341–362 pls 1–3 [357]. Type data: syntypes, MCZ \*W, from Townsville, Qld.

Distribution: NE coastal, N Gulf, N coastal, N.T., Qld. Ecology: terrestrial, diurnal, omnivore, woodland, open forest; nest in soil.

*Opisthopsis diadematus dubius* Wheeler, 1918

*Opisthopsis diadematus dubius* Wheeler, W.M. (1918). The ants of the genus *Opisthopsis* Emery. *Bull. Mus. Comp. Zool.* **62**: 341–362 pls 1–3 [358]. Type data: holotype, MCZ \*W, from Longreach, Qld.

Distribution: Lake Eyre basin, Qld. Ecology: terrestrial, diurnal, omnivore, woodland; nest in soil.

*Opisthopsis haddoni* Emery, 1893

*Opisthopsis haddoni haddoni* Emery, 1893

*Opisthopsis haddoni* Emery, C. (1893). Formicides de l'Archipel Malais. *Rev. Suisse Zool.* **1**: 187–229 [226 pl 8]. Type data: syntypes, MCG \*W, from Mer Is. of the Murray Group, Qld.

Distribution: N coastal, N Gulf, NE coastal, Lake Eyre basin, W plateau, Murray-Darling basin, N.T., Qld., N.S.W., S.A., W.A. Ecology: terrestrial, diurnal, omnivore, woodland, open forest; nest in soil.

*Opisthopsis haddoni rufoniger* Forel, 1910

*Opisthopsis haddoni rufoniger* Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [70]. Type data: syntypes, GMNH W, ANIC W, from Tennant Creek, N.T.

Distribution: W plateau, N.T. Ecology: terrestrial, diurnal, omnivore, woodland, open forest; nest in soil.

*Opisthopsis jocosus* Wheeler, 1918

*Opisthopsis jocosus* Wheeler, W.M. (1918). The ants of the genus *Opisthopsis* Emery. *Bull. Mus. Comp. Zool.* **62**: 341–362 pls 1–3 [359]. Type data: syntypes, MCZ \*W, from Baron Falls at Kuranda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, omnivore, woodland, open forest; nest in soil.

*Opisthopsis lienosus* Wheeler, 1918

*Opisthopsis lienosus* Wheeler, W.M. (1918). The ants of the genus *Opisthopsis* Emery. *Bull. Mus. Comp. Zool.* **62**: 341–362 pls 1–3 [356]. Type data: syntypes, MCZ \*W, from Koah, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, omnivore, woodland, open forest; nest in soil.

*Opisthopsis major* Forel, 1902

*Opisthopsis major* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [492]. Type data: syntypes, GMNH W,F, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, omnivore, woodland, open forest; nest in soil.

*Opisthopsis maurus* Wheeler, 1918

*Opisthopsis maurus* Wheeler, W.M. (1918). The ants of the genus *Opisthopsis* Emery. *Bull. Mus. Comp. Zool.* **62**: 341–362 pls 1–3 [350]. Type data: holotype, MCZ \*W, from Koah, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, omnivore, woodland, open forest; nest in soil.

*Opisthopsis pictus* Emery, 1895

*Opisthopsis pictus pictus* Emery, 1895

*Opisthopsis pictus* Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [354]. Type data: syntypes, MCG \*W, from Kamerunga, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, omnivore, woodland, open forest; nest in soil.

*Opisthopsis pictus bimaculatus* Wheeler, 1918

*Opisthopsis pictus bimaculatus* Wheeler, W.M. (1918). The ants of the genus *Opisthopsis* Emery. *Bull. Mus. Comp. Zool.* **62**: 341–362 pls 1–3 [352]. Type data: holotype, MCZ \*W, from mountain west of Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, omnivore, woodland, open forest; nest in soil.

*Opisthopsis pictus lepidus* Wheeler, 1918

*Opisthopsis pictus lepidus* Wheeler, W.M. (1918). The ants of the genus *Opisthopsis* Emery. *Bull. Mus. Comp. Zool.* **62**: 341–362 pls 1–3 [352]. Type data: syntypes, MCZ \*W, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, omnivore, woodland, open forest; nest in soil.

*Opisthopsis pictus palliatus* Wheeler, 1918

*Opisthopsis pictus palliatus* Wheeler, W.M. (1918). The ants of the genus *Opisthopsis* Emery. *Bull. Mus. Comp. Zool.* **62**: 341–362 pls 1–3 [352]. Type data: syntypes, MCZ \*W, from Sunnybank, near Brisbane, Qld.



Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, omnivore, woodland, open forest; nest in soil.

*Opisthopsis respiciens* (F. Smith, 1865)

*Opisthopsis respiciens respiciens* (F. Smith, 1865)

*Formica* (*Myrmecopsis*) *respiciens* Smith, F. (1865). Descriptions of new species of hymenopterous insects from the islands of Sumatra, Sula, Gilolo, Salwatty, and New Guinea, collected by Mr A.R. Wallace. *J. Linn. Soc. Zool.* 8: 61–94 pl 4 [13 Jan. 1865] [68]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: holotype, BMNH \*W, from New Guinea.

Distribution: N coastal, N Gulf, NE coastal, SE coastal, N.T., Qld., N.S.W. Ecology: terrestrial, diurnal, omnivore, open forest, closed forest; nest in soil.

*Opisthopsis respiciens moestus* Wheeler, 1918

*Opisthopsis respiciens moestus* Wheeler, W.M. (1918). The ants of the genus *Opisthopsis* Emery. *Bull. Mus. Comp. Zool.* 62: 341–362 pls 1–3 [348]. Type data: syntypes, SAMA \*W,F,M, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, diurnal, omnivore, open forest, closed forest; nest in soil.

*Opisthopsis rufithorax* Emery, 1895

*Opisthopsis rufithorax* Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* 39: 345–358 [354]. Type data: syntypes, MCG (probable) \*W, from Peak Downs, Qld.

Distribution: NE coastal, N coastal, N Gulf, Murray-Darling basin, SE coastal, S Gulfs, W plateau, N.T., N.S.W., A.C.T., S.A., W.A., Qld. Ecology: terrestrial, diurnal, omnivore, woodland, open forest; nest in soil.

*Paratrechina* Motschoulsky, 1863

*Paratrechina* Motschoulsky, V. von. (1863). Essai d'un catalogue des insectes de l'île Ceylon. *Byull. Mosk. Obshch. Ispyt. Prir.* 26: 1–153 [13]. Type species *Formica longicornis* Latreille, 1802 (as *Paratrechina currens* Motschoulsky, 1863) by monotypy. Compiled from secondary source: Wheeler, W.M. (1911). A list of the type species of the genera and subgenera of Formicidae. *Ann. N.Y. Acad. Sci.* 21: 157–175 [17 Oct. 1911].

This group is also found in the Neotropical, Nearctic, south Palearctic, Ethiopian, Malagasy and Oriental regions; widespread in the Australian Region except New Zealand, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp.

161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

*Paratrechina braueri* (Mayr, 1868)

*Paratrechina braueri braueri* (Mayr, 1868)

*Prenolepis braueri* Mayr, G.L. in Brauer, F. (1868). Neuropteren. in, *Reise der österreichischen fregatte Novara um die Erde in der Jahren 1857, 1858, 1859*. Zool. 2 Abt. 1A4: 1–107 pl 1–2 [49]. Type data: syntypes, NHMW (probable) \*W, from Sidney (=Sydney), N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Paratrechina braueri glabrior* (Forel, 1902)

*Prenolepis braueri glabrior* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [490]. Type data: syntypes, GMNH W,F,M, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Paratrechina minutula* (Forel, 1901)

*Prenolepis minutula* Forel, A. (1901). Formiciden aus dem Bismarck-Archipel, auf Grundlage des von Prof. Dr. F. Dahl gesammelten Materials bearbeitet. *Mitt. Zool. Mus. Berl.* 2: 1–37 [3 Apr. 1901] [25]. Type data: syntypes, GMNH W, ANIC W, from N.S.W.

Distribution: NE coastal, SE coastal, Murray-Darling basin, Qld., N.S.W. Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Paratrechina nana* Santschi, 1928

*Paratrechina* (*Nylanderia*) *nana* Santschi, F. (1928). Nouvelles fourmis d'Australie. *Bull. Soc. Vaud. Sci. Nat.* 56: 465–483 [30 Aug. 1928] [478]. Type data: syntypes, whereabouts uncertain, from Ringwood, Vic., see The Zoological Society of London (1929). *The Zoological Record*. Vol. 65 relating chiefly to the year 1928. London : Gurney & Jackson.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Paratrechina obscura* (Mayr, 1862)

*Prenolepis obscura* Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* 12: Abhand. 649–776 [698 pl 19]. Type data: syntypes, NHMW \*W,F, from Sidney (=Sydney), N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Paratrechina rosae* (Forel, 1902)**

***Prenolepis rosae*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [489]. Type data: syntypes, GMNH W,F,M, ANIC W, from Sydney, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Paratrechina tasmaniensis* (Forel, 1913)**

***Prenolepis (Nylanderia) tasmaniensis*** Forel, A. (1913). Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* **49**: 173–196 pl 2 [190]. Type data: syntypes, GMNH W, from Tas.

Distribution: Tas. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Paratrechina vaga* (Forel, 1901)**

***Prenolepis obscura vaga*** Forel, A. (1901). Formiciden aus dem Bismarck-Archipel, auf Grundlage des von Prof. Dr. F. Dahl gesammelten Materials bearbeitet. *Mitt. Zool. Mus. Berl.* **2**: 1–37 [3 Apr. 1901] [26]. Type data: syntypes, probably in GMNH, from Ralum, New Britain.

Distribution: NE coastal, N coastal, N.T., Qld.; introduced(?), found from Philippines to Juan Fernandez Is. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer. Biological references: Emery, C. (1914). Les fourmis de la Nouvelle-Calédonie et des Îles Loyalty. pp. 393–435 in Sarasin, F. & Roux, J. (eds.) *Nova Caledonia, Zoologie*. Vol. 1 No. 11 Wiesbaden : C.W. Kreidels Verl. (raised to species)

***Plagiolepis* Mayr, 1861**

***Plagiolepis*** Mayr, G.L. (1861). *Die europäischen Formiciden*. (Ameisen.) *Nach der analytischen Methode bearbeitet*. Vienna : Carl Gerolds Sohn 80 pp. 1 pl [42]. Type species *Formica pygmaea* Latreille, 1798 by monotypy.

This group is also found in the Palearctic, Ethiopian, Malagasy and Oriental regions; New Guinea, east Melanesia and parts of Polynesia in the Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Plagiolepis clarki* Wheeler, 1934**

***Plagiolepis clarki clarki* Wheeler, 1934**

***Plagiolepis clarki*** Wheeler, W.M. (1934). Contributions to the fauna of Rottnest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* **20**: 137–163 [5 Oct. 1934] [157]. Type data: syntypes, MCZ \*W,F,M, from Mundaring Weir, Margaret River and Pemberton, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Plagiolepis clarki impasta* Wheeler, 1934**

***Plagiolepis clarki impasta*** Wheeler, W.M. (1934). Contributions to the fauna of Rottnest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* **20**: 137–163 [5 Oct. 1934] [158]. Type data: syntypes, MCZ \*W, from Jenolan Caves in the Blue Mts., N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Plagiolepis exigua* Forel, 1894**

***Plagiolepis exigua*** Forel, A. (1894). Les Formicides de l'Empire des Indes et de Ceylan. Part N. *J. Bombay Nat. Hist. Soc.* **8**: 396–420 [415]. Type data: status unknown, ?GMNH, from India.

***Plagiolepis exigua quadrimaculata* Forel, 1902**

***Plagiolepis exigua quadrimaculata*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [483]. Type data: syntypes, GMNH W,M, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Plagiolepis lucidula* Wheeler, 1934**

***Plagiolepis lucidula*** Wheeler, W.M. (1934). Contributions to the fauna of Rottnest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* **20**: 137–163 [5 Oct. 1934] [155]. Type data: syntypes, MCZ \*W, from Lady Edeline Beach, Rottnest Is., W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Plagiolepis nynganensis* McAreavey, 1949**

***Plagiolepis nynganensis*** McAreavey, J.J. (1949). Australian Formicidae. New genera and species. *Proc. Linn. Soc. N.S.W.* **74**: 1–25 [15 June 1949] [23]. Type data: holotype, ANIC W, from Nyngan, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Plagiolepis squamulosa* Wheeler, 1934**

***Plagiolepis squamulosa*** Wheeler, W.M. (1934). Contributions to the fauna of Rottneest Island, Western Australia No. IX. The ants. *J. R. Soc. West. Aust.* **20**: 137–163 [5 Oct. 1934] [156]. Type data: syntypes, MCZ \*W, from sand dunes S of Geraldton, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, woodland; nest in ground layer.

***Polyrhachis* F. Smith, 1857**

***Polyrhachis*** Smith, F. (1857). Catalogue of the hymenopterous insects collected at Sarawak, Borneo, Mount Ophir, Malacca; and at Singapore by A. R. Wallace. *J. Linn. Soc. Zool.* **2**: 42–130 [2 Nov. 1857] [58 pls 1–2]; Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type species *Formica bihamata* Drury, 1773 by original designation.

***Hagiomyrma*** Wheeler, W.M. (1911). Three Formicid names which have been overlooked. *Science* (ns) **33**: 858–860 [860] [proposed with subgeneric rank in *Polyrhachis* F. Smith, 1857]. Type species *Formica ammon* Fabricius, 1775 by original designation. Compiled from secondary source: Donisthorpe, H. (1934). A list of the type species of the genera and subgenera of the Formicidae. *Ann. Mag. Nat. Hist.* (11) **10**: 649–688.

***Chariomyrma*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia. 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 [4 Dec. 1915] [107 pls 1–3] [proposed with subgeneric rank in *Polyrhachis* F. Smith, 1857]. Type species *Polyrhachis guerini* Roger, 1863 by original designation.

***Hedomyrma*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia. 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 [4 Dec. 1915] [107 pls 1–3] [proposed with subgeneric rank in *Polyrhachis* F. Smith, 1857]. Type species *Polyrhachis ornata* Mayr, 1876 by original designation.

Synonymy that of Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press [177]; the subgenera of *Polyrhachis* are discussed in Hung, A.C.F. (1967). A revision of the ant genus *Polyrhachis* at the subgeneric level (Hymenoptera : Formicidae). *Trans. Am. Entomol. Soc.* **93**: 395–422 [20 Dec. 1967].

This group is also found in the south Palearctic, Ethiopian and Oriental regions; widespread in the Australian Region except New Zealand, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest*

*ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Polyrhachis aeschyle* Forel, 1915**

***Polyrhachis (Hedomyrma) aeschyle*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [111]. Type data: holotype, whereabouts unknown, from Cedar Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, open forest; nest in soil.

***Polyrhachis ammon* (Fabricius, 1775)*****Polyrhachis ammon ammon* (Fabricius, 1775)**

***Formica ammon*** Fabricius, J.C. (1775). *Systema Entomologiae*, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus. Flensburgi et Lipsiae [394]. Type data: uncertain, BMNH W, from Australia (as New Holland).

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis ammon angusta* Forel, 1902**

***Polyrhachis ammon angusta*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [524]. Type data: syntypes, GMNH W,F,M, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis ammon angustata* Forel, 1902**

***Polyrhachis ammon angustata*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [525]. Type data: holotype (probable), GMNH W, from Australia.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis ammonoeides* Roger, 1863*****Polyrhachis ammonoeides ammonoeides* Roger, 1863**

***Polyrhachis ammonoeides*** Roger, J. (1863). Die neu aufgeführten Gattungen und Arten meines Formiciden-Verzeichnisses. *Berl. Entomol. Z.* **7**: 129–214 [June 1863] [157]. Type data: syntypes (probable), MNHP \*W, from Port Jackson, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.



***Polyrhachis ammonoides crawleyi* Forel, 1916**

***Polyrhachis (Hagiomyrma) ammonoides crawleyi*** Forel, A. (1916). Fourmis du Congo et d'autres provenances récoltées par MM. Hermann, Kohl, Luja, Mayné, etc. *Rev. Suisse Zool.* **24**: 397–460 [447]. Type data: syntypes, GMNH (probable) \*W, from N Australia.

Distribution: N coastal, N.T., W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis anguliceps* Viehmeyer, 1925**

***Polyrhachis (Hedomyrma) anguliceps*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 139–149 [148]. Type data: syntypes, ZMB \*W, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis appendiculata* Emery, 1893**

***Polyrhachis appendiculata appendiculata*** Emery, 1893

***Polyrhachis appendiculata*** Emery, C. (1893). Formicides de l'Archipel Malais. *Rev. Suisse Zool.* **1**: 187–229 [227 pl 8]. Type data: syntypes, MCG \*W, from Mer Is. of the Murray Group, Qld.

Distribution: Torres Strait. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis appendiculata schoopae* Forel, 1902**

***Polyrhachis appendiculata schoopae*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [520]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis arcuata* (Le Guillou, 1841)**

***Formica arcuata*** Le Guillou, E.J.F. (1841). Catalogue raisonné des insectes hyménoptères recueillis dans le voyage de circumnavigation des corvettes l'*Astrolabe* et la *Zélée*. *Ann. Soc. Entomol. Fr.* **10**: 311–324 [315]. Type data: syntypes, MNHP (probable) \*W,F, from Borneo and northern Australia.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis aurea* Mayr, 1876*****Polyrhachis aurea aurea* Mayr, 1876**

***Polyrhachis guerini aurea*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [74]. Type data: syntypes, NHMW \*W,F, from Rockhampton and Gayndah, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil. Biological references: Emery, C. (1897). Viaggio do Lamberto Loria nella Papuasias orientale 18. Formiche raccolte nelle Nuova Guinea. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **38**: 546–594 pl 1 (raised to species).

***Polyrhachis aurea depilis* Emery, 1897**

***Polyrhachis aurea depilis*** Emery, C. (1897). Viaggio do Lamberto Loria nella Papuasias orientale 18. Formiche raccolte nelle Nuova Guinea. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **38**: 546–594 [22 Nov. 1897] [589 pl 1]. Type data: syntypes (probable), MCG \*W, from Qld.

Distribution: (NE coastal), Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis barnardi* Clark, 1928**

***Polyrhachis (Myrmhopla) barnardi*** Clark, J. (1928). Australian Formicidae. *J. R. Soc. West. Aust.* **14**: 29–41 pl 1 [24 Apr. 1928] [39]. Type data: syntypes, NMV \*W, MCZ \*W, from Cape York, Qld.

Distribution: N Gulf, Qld. Ecology: terrestrial, noctidiurnal, omnivore, closed forest; nest arboreal.

***Polyrhachis barretti* Clark, 1928**

***Polyrhachis (Hedomyrma) barretti*** Clark, J. (1928). Ants from North Queensland. *Vict. Nat.* **45**: 169–171 [10 Oct. 1928] [170]. Type data: syntypes, NMV \*W, from Daintree River, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, closed forest; nest arboreal.

***Polyrhachis bedoti* Forel, 1902**

***Polyrhachis bedoti*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [518]. Type data: holotype (probable), GMNH W, from probably Australia or New Guinea.

Distribution: distribution and ecology unknown.

***Polyrhachis bellicosa* F. Smith, 1859**

***Polyrhachis bellicosus*** Smith, F. (1859). Catalogue of hymenopterous insects collected by Mr A.R. Wallace at the islands of Aru and Key. *J. Linn. Soc. Zool.* **3**: 132–178 [1 Feb. 1859] [142]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Aru, Indonesia.

Distribution: NE coastal, Qld.; widespread in SE Asia. Ecology: terrestrial, noctidiurnal, omnivore, closed forest; nest arboreal.

***Polyrhachis cataulacoidea* Stitz, 1911**

***Polyrhachis cataulacoidea*** Stitz, H. (1911). Australische Ameisen (Neu-Guinea und Salomons-Inseln, Festland, Neu-Seeland). *Sber. Ges. Naturf. Freunde Berl.* **1911**: 351–381 [377]. Type data: holotype, ZMB \*W, from Sidney (=Sydney), N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis chalthas* Forel, 1907**

***Polyrhachis chalthas*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [307]. Type data: syntypes, GMNH W, ANIC W, from Denham, Geraldton and Dongarra, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis chrysothorax* Viehmeyer, 1925**

***Polyrhachis (Hedomyrma) chrysothorax*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 139–149 [148]. Type data: syntypes, ZMB \*W,F, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

***Polyrhachis cleopatra* Forel, 1902**

***Polyrhachis cleopatra*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [513]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

***Polyrhachis clio* Forel, 1902**

***Polyrhachis clio*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [515]. Type data: syntypes, GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

***Polyrhachis clotho* Forel, 1902**

***Polyrhachis clotho*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [525]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, arboreal, omnivore, woodland, open forest; nest arboreal.

***Polyrhachis constricta* Emery, 1897**

***Polyrhachis constricta*** Emery, C. (1897). Viaggio do Lamberto Loria nella Papuasias orientale 18. Formiche

raccolte nelle Nuova Guinea. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **38**: 546–594 [22 Nov. 1897] [584 pl 1]. Type data: holotype, MCG \*W, from Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis contemta* Mayr, 1876**

***Polyrhachis contemta*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [74]. Type data: syntypes, NHMW \*W, from Gayndah, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis daemeli* Mayr, 1876*****Polyrhachis daemeli daemeli* Mayr, 1876**

***Polyrhachis daemeli*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [72]. Type data: syntypes, NHMW \*W, from Rockhampton and Peak Downs, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest; nest arboreal.

***Polyrhachis daemeli argentosa* Forel, 1902**

***Polyrhachis daemeli argentosa*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [515]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest; nest arboreal.

***Polyrhachis daemeli exlex* Forel, 1915**

***Polyrhachis (Hedomyrma) daemeli exlex*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [110]. Type data: holotype, SMNH ?\* W, from Yarrabah, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest; nest arboreal.

***Polyrhachis doddi* Donisthorpe, 1938**

***Polyrhachis (Cyrtomyrma) doddi*** Donisthorpe, H. (1938). The subgenus *Cyrtomyrma* Forel of *Polyrhachis* Smith, with descriptions of new species, etc. *Ann. Mag. Nat. Hist. (11)* **1**: 246–267 [263]. Type data: syntypes, BMNH \*W,F, from Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest arboreal.

***Polyrhachis erato* Forel, 1902**

***Polyrhachis erato*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [512]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, open forest; nest arboreal.

***Polyrhachis euterpe* Forel, 1902**

***Polyrhachis euterpe*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [511]. Type data: holotype (probable), GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, open forest; nest arboreal.

***Polyrhachis exulans* Clark, 1941**

***Polyrhachis (Myrmhopla) exulans*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* **12**: 71–94 [91 pl 13]. Type data: syntypes, NMV \*W, from Koolpinyah, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, nocturnal, omnivore, closed forest; nest arboreal.

***Polyrhachis femorata* F. Smith, 1858**

***Polyrhachis femoratus*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London: British Museum 216 pp. 14 pls [27 Mar. 1858] [73]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: syntypes (probable), BMNH \*W, from Melbourne, Vic.

***Camponotus emeryi*** Forel, A. (1880). Études myrmécologiques en 1879. *Bull. Soc. Vaud. Sci. Nat.* **16**: 53–128 [113 pl 1]. Type data: holotype, possibly in GMNH, from Australia.

Synonymy that of Emery, C. (1925). Hymenoptera Fam. Formicidae subfam. Formicinae in Wytman, P. (ed.) *Genera Insectorum*. Fasc. 183 302 pp. 4 pls [179].

Distribution: SE coastal, Vic. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis flavibasis* Clark, 1930**

***Polyrhachis (Campomyrma) flavibasis*** Clark, J. (1930). New Formicidae, with notes on some little-known species. *Proc. R. Soc. Vict.* **43**: 2–25 [30 Aug. 1930] [16]. Type data: syntypes, NMV \*W,F, from Brooklana and Dorrig, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis froggatti* Forel, 1910**

***Polyrhachis froggatti*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [89]. Type data: syntypes, GMNH W, ANIC W, from Bombala, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis fuscipes* Mayr, 1862**

***Polyrhachis fuscipes*** Mayr, G.L. (1862). Myrmecologische Studien. *Verh. Zool.-Bot. Ges. Wien* **12**: Abhand. 649–776 [679 pl 19]. Type data: syntypes (probable), NHMW \*W, from Tas.

Distribution: Tas. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis gab* Forel, 1880**

***Polyrhachis gab gab* Forel, 1880**

***Polyrhachis guerini gab*** Forel, A. (1880). Études myrmécologiques en 1879. *Bull. Soc. Vaud. Sci. Nat.* **16**: 53–128 [116 pl 1]. Type data: syntypes, possibly in GMNH, from Australia.

***Polyrhachis (Chariomyrma) gab tripellis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [108]. Type data: syntypes, GMNH W,F, ANIC W, other syntypes may exist, from Kimberley distr., Derby and Noonkanbah, W.A.

***Polyrhachis comata*** Crawley, W.C. (1915). Ants from north and south-west Australia (G.F. Hill, Rowland Turner) and Christmas Island, Straits Settlements. Part II. *Ann. Mag. Nat. Hist.* (8) **15**: 232–239 [237] [*non Polyrhachis bicolor comata* Emery, 1911]. Type data: syntypes (probable), BMNH \*W, from Stapleton, N.T.

***Polyrhachis crawleyella*** Santschi, F. (1916). Rectifications à la nomenclature de quelques formicides [Hym.]. *Bull. Soc. Entomol. Fr.* **1916**: 242–243 [243] [*nom. nov.* for *Polyrhachis comata* Crawley, 1915].

Synonymy that of Bolton, B. (1974). New synonymy and a new name in the ant genus *Polyrhachis* F. Smith (Hym., Formicidae). *Entomol. Mon. Mag.* **109**: 172–180 [173].

Distribution: N coastal, W.A., N.T. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis gab aegra* Forel, 1915**

***Polyrhachis (Chariomyrma) gab aegra*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [109]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Atherton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis gab senilis* Forel, 1902**

***Polyrhachis gab senilis*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [520]. Type data: syntypes, GMNH W, ANIC W, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.



***Polyrhachis glabrinota* Clark, 1930**

***Polyrhachis (Myrmhopla) glabrinotum* Clark, J. (1930).** New Formicidae, with notes on some little-known species. *Proc. R. Soc. Vict.* **43**: 2–25 [30 Aug. 1930] [13]. Type data: syntypes, NMV \*W, from Cape York, Qld.

Distribution: N Gulf, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest arboreal.

***Polyrhachis gravis* Clark, 1930**

***Polyrhachis (Campomyrma) gravis* Clark, J. (1930).** New Formicidae, with notes on some little-known species. *Proc. R. Soc. Vict.* **43**: 2–25 [30 Aug. 1930] [15]. Type data: syntypes, NMV \*W, from Burt Plains, N.T.

Distribution: Lake Eyre basin, N.T. Ecology: terrestrial, noctidiurnal, omnivore, desert, woodland; nest in soil.

***Polyrhachis guerini* Roger, 1863*****Polyrhachis guerini guerini* Roger, 1863**

***Polyrhachis guerini* Roger, J. (1863).** Die neu aufgeführten Gattungen und Arten meines Formiciden-Verzeichnisses. *Berl. Entomol. Z.* **7**: 129–214 [June 1863] [157]. Type data: holotype, MNHP \*W, from Australia (as New Holland).

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis guerini lata* Emery, 1895**

***Polyrhachis guerini lata* Emery, C. (1895).** Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [357]. Type data: syntypes, MCG \*W, from Somerset, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis guerini pallescens* Mayr, 1876**

***Polyrhachis guerini pallescens* Mayr, G.L. (1876).** Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [74]. Type data: syntypes (probable), NHMW \*W, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis guerini vermiculosa* Mayr, 1876**

***Polyrhachis guerini vermiculosa* Mayr, G.L. (1876).** Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [74]. Type data: syntypes, NHMW \*W,F,M, from Rockhampton and Peak Downs, Qld. and Sidney (=Sydney), N.S.W.

Distribution: NE coastal, SE coastal, Qld., N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis hecuba* Forel, 1902**

***Polyrhachis hecuba* Forel, A. (1902).** Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [527]. Type data: syntypes, GMNH W,F,M, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis heinlethii* Forel, 1895*****Polyrhachis heinlethii heinlethii* Forel, 1895**

***Polyrhachis heinlethii* Forel, A. (1895).** Nouvelles fourmis de diverses provenances, surtout d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 41–49 [47]. Type data: syntypes, ANIC W, GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis heinlethii sophiae* Forel, 1902**

***Polyrhachis heinlethii sophiae* Forel, A. (1902).** Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [521]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis hermione* Emery, 1895*****Polyrhachis hermione hermione* Emery, 1895**

***Polyrhachis hermione* Emery, C. (1895).** Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [357]. Type data: syntypes, MCG \*W, from Mt. Bellenden Ker, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis hermione cupreata* Emery, 1895**

***Polyrhachis hermione cupreata* Emery, C. (1895).** Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [357]. Type data: holotype, MCG \*W, from Cairns (=Cairns), Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis hexacantha* (Erichson, 1842)**

***Formica hexacantha* Erichson, W.F. (1842).** Beitrag zur Fauna von Vandiemansland mit besonderer rucksicht auf die geographische Verbreitung der Insecten. *Arch. Naturg.* **8**: 83–287 [260]. Type data: holotype (probable), ZMB \*W, from Tas.

Distribution: Tas. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

*Polyrhachis hirsuta* Mayr, 1876

*Polyrhachis hirsuta hirsuta* Mayr, 1876

*Polyrhachis hirsuta* Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [75]. Type data: syntypes (probable), NHMW \*W, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

*Polyrhachis hirsuta quinquedentata* Viehmeyer, 1925

*Polyrhachis (Campomyrma) hirsuta quinquedentata* Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 139–149 [147]. Type data: syntypes (probable), ZMB \*W, from Liverpool, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

*Polyrhachis hookeri* Lowne, 1865

*Polyrhachis hookeri hookeri* Lowne, 1865

*Polyrhachis hookeri* Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* **2**: 331–336 [334]. Type data: syntypes (probable), BMNH (probable) \*W, from Sidney (=Sydney), N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

*Polyrhachis hookeri aerea* Forel, 1902

*Polyrhachis hookeri aerea* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [521]. Type data: syntypes, GMNH W,F,M, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

*Polyrhachis hookeri lownei* Forel, 1895

*Polyrhachis hookeri lownei* Forel, A. (1895). Nouvelles fourmis de diverses provenances, surtout d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 41–49 [44]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

*Polyrhachis hookeri obscura* Forel, 1895

*Polyrhachis hookeri obscura* Forel, A. (1895). Nouvelles fourmis de diverses provenances, surtout d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 41–49 [44]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

*Polyrhachis humerosa* Emery, 1921

*Polyrhachis (Hedomyrma) humerosa* Emery, C. (1921). Le genre *Polyrhachis*. Classification; espèces nouvelles ou critiques. *Bull. Soc. Vaud. Sci. Nat.* **54**: 17–25 [18]. Type data: syntypes, GMNH (probable) W, from Adelaide, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, omnivore, open forest; nest arboreal.

*Polyrhachis inconspicua* Emery, 1887

*Polyrhachis inconspicua inconspicua* Emery, 1887

*Polyrhachis inconspicua* Emery, C. (1887). Catalogo delle formiche esistenti nelle collezioni del Museo Civico di Genova. Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **25**: 209–258 pls 3–4 [225]. Type data: syntypes, MCG \*W, from Somerset, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, closed forest; nest in soil.

*Polyrhachis inconspicua subnitens* Emery, 1895

*Polyrhachis inconspicua subnitens* Emery, C. (1895). Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [357]. Type data: holotype, MCG \*W, from Kamerunga, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

*Polyrhachis ithona* F. Smith, 1860

*Polyrhachis hector* Smith, F. (1859). Catalogue of hymenopterous insects collected by Mr A.R. Wallace at the islands of Aru and Key. *J. Linn. Soc. Zool.* **3**: 132–178 [1 Feb. 1859] [142] [*non Polyrhachis hector* F. Smith, 1857]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) **10**: 441–476. Type data: holotype, OUM \*W, from Aru IIs., Indonesia.

*Polyrhachis ithonus* Smith, F. (1860). Catalogue of hymenopterous insects collected by Mr A.R. Wallace in the islands of Bachian, Kaisaa, Amboyna, Gilolo, and at Dory in New Guinea. *J. Linn. Soc. Zool.* **5**: 93–143 pl 1 [18 July 1860] [99]. Type data: syntypes, OUM \*W,F, from Bachian, Indonesia.

*Polyrhachis andromache* Roger, J. (1863). Verzeichniss der Formiciden-Gattungen und Arten. *Berl. Entomol. Z.* **7** appendix to vol.: 1–65 [8] [*nom. nov.* for *Polyrhachis hector* F. Smith, 1859].

Synonymy that of Bolton, B. (1974). New synonymy and a new name in the ant genus *Polyrhachis* F. Smith (Hym., Formicidae). *Entomol. Mon. Mag.* **109**: 172–180 [177].

Distribution: NE coastal, Qld.; widespread in SE Asia. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis jacksoniana* Roger, 1863**

***Polyrhachis jacksoniana*** Roger, J. (1863). Die neu aufgeführten Gattungen und Arten meines Formiciden-Verzeichnisses. *Berl. Entomol. Z.* 7: 129–214 [June 1863] [158]. Type data: holotype, MNHP \*W, from Port Jackson, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis kershawi* Clark, 1930**

***Polyrhachis (Hedomyrma) kershawi*** Clark, J. (1930). New Formicidae, with notes on some little-known species. *Proc. R. Soc. Vict.* 43: 2–25 [30 Aug. 1930] [12]. Type data: syntypes, NMV \*W, from Claudie River, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, open forest, closed forest; nest arboreal.

***Polyrhachis lachesis* Forel, 1897**

***Polyrhachis lachesis*** Forel, A. in Emery, C. (1897). Viaggio do Lamberto Loria nella Papuasias orientale 18. Formiche raccolte nelle Nuova Guinea. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* 38: 546–594 [22 Nov. 1897] [582 pl 1]. Type data: syntypes, GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, open forest, closed forest; nest arboreal.

***Polyrhachis latreillii* (Guérin, 1831)**

***Formica latreillii*** Guérin-Meneville, F.E. (1831). Chapter 12, Insectes. in Duperrey, M.L.I. (1838). *Voyage autour du monde, exécuté par ordre du roi, sur la corvette de La Majesté, La Coquille, pendant les années 1822, 1823, 1824 et 1825*. Vol. 2 part 2, division 1: 57–302 Atlas (1830–1832), Ins pls 1–21 [203 pl 8 fig 4]. Publication date established from Bequaert, J. (1926). The date of publication of the Hymenoptera and Diptera described by Guérin in Duperrey's "Voyage de la Coquille". *Entomol. Mitt.* 15: 186–195 [20 Mar. 1926]. Type data: holotype, MNHP (probable) \*W, from Australia (as New Holland).

Distribution: (SE coastal), (N.S.W.). Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis leae* Forel, 1913**

***Polyrhachis leae leae* Forel, 1913**

***Polyrhachis leae*** Forel, A. (1913). Fourmis de Tasmanie et d'Australie récoltées par MM. Lea, Froggatt etc. *Bull. Soc. Vaud. Sci. Nat.* 49: 173–196 pl 2 [193]. Type data: syntypes, GMNH W, from Hobart, Tas.

Distribution: Tas. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis leae cedarensis* Forel, 1915**

***Polyrhachis (Campomyrma) leae cedarensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [114]. Type data: syntypes, GMNH W,F, other syntypes may exist, from Cedar Creek, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis levior* Roger, 1863**

***Polyrhachis laevisima*** Smith, F. (1859). Catalogue of hymenopterous insects collected by Mr A.R. Wallace at the islands of Aru and Key. *J. Linn. Soc. Zool.* 3: 132–178 [1 Feb. 1859] [141] [non *Polyrhachis laevisima* Smith, 1858]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist.* (10) 10: 441–476. Type data: syntypes (probable), BMNH \*W, from Aru IIs., Indonesia.

***Polyrhachis levior*** Roger, J. (1863). Verzeichniss der Formiciden-Gattungen und Arten. *Berl. Entomol. Z.* 7 appendix to vol.: 1–65 [8] [nom. nov. for *Polyrhachis laevisima* F. Smith, 1859].

***Polyrhachis australis*** Mayr, G.L. (1870). Neue Formiciden. *Verh. Zool.-Bot. Ges. Wien* 20: Abhand. 939–996 [31 Dec. 1870] [945]. Type data: syntypes (probable), NHMW \*W, from Port Mackay, Qld.

Synonymy that of Emery, C. (1925). Fam. Formicidae subfam. Formicinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 183 302 pp. 4 pls [208].

Distribution: NE coastal, Qld; also in E Indonesia and Papua New Guinea. Ecology: omnivore, arboreal, closed forest; nest arboreal.

***Polyrhachis lombokensis* Emery, 1898**

***Polyrhachis lombokensis*** Emery, C. (1898). Descrizioni di formiche nuove Malesi e Australiane. Note sinonimiche. *Rec. Sess. Accad. Sci. Ist. Bologna (ns)* 2: 231–245 [239]. Type data: status unknown, ?MCG, from Lombok, Indonesia.

***Polyrhachis lombokensis yarrabahensis* Forel, 1915**

***Polyrhachis (Myrmatopa) lombokensis yarrabahensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* 9: 1–119 pls 1–3 [4 Dec. 1915] [115]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Malanda and Yarrabah, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, closed forest; nest arboreal.

***Polyrhachis lysiistrata* Santschi, 1920**

***Polyrhachis (Myrmothrinax) lysiistrata*** Santschi, F. (1920). Quelques nouveaux Camponotinae d'Indochine et



Australie. *Bull. Soc. Vaud. Sci. Nat.* **52**: 565–569 [569] [introduced as *Polyrhachys*]. Type data: syntypes, BNHM W, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, closed forest; nest arboreal.

***Polyrhachis machaon* Santschi, 1920**

***Polyrhachis (Hedomyrma) machaon*** Santschi, F. (1920). Quelques nouveaux Camponotinae d'Indochine et Australie. *Bull. Soc. Vaud. Sci. Nat.* **52**: 565–569 [568] [introduced as *Polyrhachys*]. Type data: holotype, BNHM W, from Townsville, Qld., see The Zoological Society of London (1922). *The Zoological Record*. Vol. 57, relating chiefly to the year 1920. London : Gurney & Jackson.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

***Polyrhachis mackayi* Donisthorpe, 1938**

***Polyrhachis (Cyratomyrma) mackayi*** Donisthorpe, H. (1938). The subgenus *Cyratomyrma* Forel of *Polyrhachis* Smith, with descriptions of new species, etc. *Ann. Mag. Nat. Hist.* (11) **1**: 246–267 [258]. Type data: syntypes, BMNH \*W,F, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, closed forest; nest arboreal.

***Polyrhachis macropus* Wheeler, 1916**

***Polyrhachis (Campomyrma) longipes*** Wheeler, W.M. (1915). Hymenoptera. *Trans. R. Soc. S. Aust.* **39**: 805–823 pls 64–66 [Dec. 1915] [821] [non *Polyrhachis longipes* F. Smith, 1858]. Type data: syntypes, MCZ \*W, from Everard Range S.A.

***Polyrhachis macropus*** Wheeler, W.M. (1916). *Prodiscothyrea*, a new genus of ponerine ants from Queensland. *Trans. R. Soc. S. Aust.* **40**: 33–37 [23 Dec. 1916] [37 pl 4] [*nom. nov.* for *Polyrhachis longipes* Wheeler, 1915].

Distribution: W plateau, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland; nest in soil.

***Polyrhachis micans* Mayr, 1876**

***Polyrhachis micans micans* Mayr, 1876**

***Polyrhachis micans*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [76]. Type data: syntypes, NHMW \*W,F, from Rockhampton and Peak Downs, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis micans ops* Forel, 1907**

***Polyrhachis micans ops*** Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol. 1 [308]. Type data: holotype, GMNH W, from Albany, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis mjobergi* Forel, 1915**

***Polyrhachis (Hedomyrma) mjobergi*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [112]. Type data: syntypes, GMNH W, other syntypes may exist, from Glen Lamington, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest arboreal.

***Polyrhachis nox* Donisthorpe, 1938**

***Polyrhachis (Cyratomyrma) nox*** Donisthorpe, H. (1938). The subgenus *Cyratomyrma* Forel of *Polyrhachis* Smith, with descriptions of new species, etc. *Ann. Mag. Nat. Hist.* (11) **1**: 246–267 [249]. Type data: syntypes, BMNH \*W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, closed forest; nest arboreal.

***Polyrhachis ornata* Mayr, 1876**

***Polyrhachis ornata*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [73]. Type data: syntypes, NHMW \*W, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest arboreal.

***Polyrhachis patiens* Santschi, 1920**

***Polyrhachis (Campomyrma) patiens*** Santschi, F. (1920). Cinq nouvelles notes sur les fourmis. *Bull. Soc. Vaud. Sci. Nat.* **53**: 163–186 [185]. Type data: holotype, BNHM W, from Kabrinville, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis penelope* Forel, 1895**

***Polyrhachis penelope*** Forel, A. (1895). Nouvelles fourmis de diverses provenances, surtout d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 41–49 [46]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis phryne* Forel, 1907**

***Polyrhachis phryne*** Forel, A. (1907). Formicides du Musée National Hongrois. *Ann. Hist.- Nat. Mus. Natl. Hung.* **5**: 1–42 [30 June 1907] [41]. Type data: syntypes (probable), probably in GMNH or MNH, from Mt. Victoria, Blue Mts., N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis polymnia* Forel, 1902**

***Polyrhachis polymnia polymnia* Forel, 1902**

***Polyrhachis polymnia* Forel, A. (1902).** Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [532]. Type data: syntypes, GMNH W,F, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis polymnia maculata* Forel, 1915**

***Polyrhachis (Campomyrma) polymnia maculata* Forel, A. (1915).** Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [115]. Type data: syntypes, GMNH W, other syntypes may exist, from Malanda, Cedar Creek and Atherton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis prometheus* Santschi, 1920**

***Polyrhachis (Campomyrma) prometheus* Santschi, F. (1920).** Quelques nouveaux Camponotinae d'Indochine et Australie. *Bull. Soc. Vaud. Sci. Nat.* **52**: 565–569 [566]. Type data: syntypes, BNHM W, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis pseudothrinax* Hung, 1967**

***Polyrhachis pseudothrinax* Hung, A.C.F. (1967).** A new species and two new names of the *Polyrhachis* ants (Hymenoptera : Formicidae). *Mushi* **40**: 199–202 [24 Mar. 1967] [199]. Type data: holotype, AMNH \*W, from Daly River, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis punctiventris* Mayr, 1876**

***Polyrhachis punctiventris* Mayr, G.L. (1876).** Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [73]. Type data: syntypes, NHMW \*W,F, from Rockhampton, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis pyrrhus* Forel, 1910**

***Polyrhachis pyrrhus* Forel, A. (1910).** Formiciden australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [90]. Type data: syntypes, GMNH W, ANIC W, from Tennant Creek, N.T.

Distribution: W plateau, N.T. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis quadricuspis* Mayr, 1870**

***Polyrhachis quadricuspis* Mayr, G.L. (1870).** Neue Formiciden. *Verh. Zool.-Bot. Ges. Wien* **20**: Abhand. 939–996 [31 Dec. 1870] [946]. Type data: syntypes (probable), NHMW (probable) \*W, from N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis queenslandica* Emery, 1895**

***Polyrhachis queenslandica* Emery, C. (1895).** Descriptions de quelques fourmis nouvelles d'Australie. *Ann. Soc. Entomol. Belg.* **39**: 345–358 [356]. Type data: syntypes (probable), MCG \*W, from Kamerunga, Qld.

***Polyrhachis delicata* Crawley, W.C. (1915).** Ants from north and south-west Australia (G.F. Hill, Rowland Turner) and Christmas Island, Straits Settlements. Part II. *Ann. Mag. Nat. Hist. (8)* **15**: 232–239 [238]. Type data: syntypes, BMNH \*W, from Darwin, N.T.

Synonymy that of Emery, C. (1925). Hymenoptera Fam. Formicidae subfam. Formicinae. in Wytsman, P. (ed.) *Genera Insectorum*. Fasc. 183 302 pp. 4 pls [184].

Distribution: NE coastal, N coastal, Qld., N.T. Ecology: terrestrial, nocturnal, omnivore, open forest, closed forest; nest arboreal.

***Polyrhachis rastellata* (Latreille, 1802)**

***Formica rastellata* Latreille, P.A. (1802).** *Histoire naturelle des fourmis*, et recueil de mémoires et d'observations sur les abeilles, les araignées, les faucheurs, et autre insects. Paris : Crapelet 445 pp. 12 pls [130]. Type data: status unknown, ?MNHP, from Indes Orientales.

***Polyrhachis rastellata yorkana* Forel, 1915**

***Polyrhachis (Cyrtomyrma) rastellata yorkana* Forel, A. (1915).** Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [110]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Cape York Peninsula, Qld.

Distribution: N Gulf, Qld. Ecology: terrestrial, nocturnal, omnivore, closed forest; nest arboreal.

***Polyrhachis relucens* (Latreille, 1802)**

***Formica relucens* Latreille, P.A. (1802).** *Histoire naturelle des fourmis*, et recueil de mémoires et d'observations sur les abeilles, les araignées, les faucheurs,

et autres insectes. Paris : Crapelet 445 pp. 12 pls [131]. Type data: uncertain, MNHP (probable) \*W, from East Indies.

***Polyrhachis relucens australiae*** Emery, 1887

***Polyrhachis connectens australiae*** Emery, C. (1887). Catalogo delle formiche esistenti nelle collezioni del Museo Civico di Genova. Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **25**: 209–258 pls 3–4 [231]. Type data: syntypes (probable), MCG \*W, from Somerset, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest; nest in soil.

***Polyrhachis rowlandi*** Forel, 1910

***Polyrhachis rowlandi*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [85]. Type data: syntypes, GMNH W, ANIC W, from Cape York, Qld.

Distribution: N Gulf, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis schenkii*** Forel, 1886

***Polyrhachis schenkii schenkii*** Forel, 1886

***Polyrhachis schenkii*** Forel, A. (1886). Études myrmécologiques en 1886. *Ann. Soc. Entomol. Belg.* **30**: 131–215 [198]. Type data: syntypes, GMNH W, from Darnley Is., Qld. and New Guinea.

Distribution: Qld.; Torres Strait. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest arboreal.

***Polyrhachis schenkii lydiae*** Forel, 1902

***Polyrhachis schenkii lydiae*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [523]. Type data: syntypes, GMNH W,F, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest arboreal.

***Polyrhachis schwiedlandi*** Forel, 1902

***Polyrhachis schwiedlandi*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [529]. Type data: syntypes, GMNH W,F, ANIC W, from Sydney, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis semiaurata*** Mayr, 1876

***Polyrhachis semiaurata*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy* **5**: 56–115 [71]. Type data: syntypes (probable), NHMW \*W, from Sydney (=Sydney), N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis semipolita*** E. André, 1896

***Polyrhachis semipolita semipolita*** E. André, 1896

***Polyrhachis semipolita*** André, E. (1896). Fourmis nouvelles d'Asie et d'Australie. *Rev. Entomol.* **15**: 251–265 [251]. Type data: syntypes, MNHP W, from Victorian Alps.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis semipolita hestia*** Forel, 1911

***Polyrhachis semipolita hestia*** Forel, A. (1911). Die Ameisen des K. zoologischen Museums in München. *Sber. Beyer Akad. Wiss., Nat.-Hist. Klasse* **41**: Abhand. 249–303 [295]. Type data: holotype, ZSM W, from Australia.

Distribution: Murray-Darling basin, Vic., N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis sempronina*** Forel, 1907

***Polyrhachis sempronina*** Forel, A. (1907). Formicides du Musée National Hongrois. *Ann. Hist.- Nat. Mus. Natl. Hung.* **5**: 1–42 [30 June 1907] [39]. Type data: syntypes (probable), probably in GMNH or MNH, from Mt. Victoria, Blue Mts., N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis sexspinosa*** (Latreille, 1802)

***Formica sexspinosa*** Latreille, P.A. (1802). *Histoire naturelle des fourmis*, et recueil de mémoires et d'observations sur les abeilles, les araignées, les faucheurs, et autres insectes. Paris 445 pp. pls 12 [126]. Type data: holotype (probable), lost, from East Indies.

Distribution: NE coastal, Qld.; widespread on New Guinea. Ecology: terrestrial, noctidiurnal, omnivore, closed forest; nest arboreal.

***Polyrhachis sidnica*** Mayr, 1866

***Polyrhachis sidnica sidnica*** Mayr, 1866

***Polyrhachis sidnica*** Mayr, G.L. (1866). Diagnosen neuer und wenig gekannter Formiciden. *Verh. Zool.-Bot. Ges. Wien* **16**: Abhand. 885–908 [886 pl 20]. Type data: syntypes (probable), NHMW (probable) \*W, from Sydney (=Sydney), N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.



***Polyrhachis sidnica perthensis* Crawley, 1922**

***Polyrhachis (Campomyrma) sidnica perthensis*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **10**: 16–36 [36]. Type data: syntypes, OUM \*W, BMNH \*W, from Perth, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis sidnica tambourinensis* Forel, 1915**

***Polyrhachis (Campomyrma) sidnica tambourinensis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [113]. Type data: holotype, SMNH ?\* W, from Mt. Tambourine (=Tamborine Mt.), Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis sokolova* Forel, 1902*****Polyrhachis sokolova sokolova* Forel, 1902**

***Polyrhachis sokolova*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [522]. Type data: syntypes, GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis sokolova degener* Forel, 1910**

***Polyrhachis sokolova degener*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [84]. Type data: holotype, GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis templi* Forel, 1902**

***Polyrhachis templi*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [531]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis terpsichore* Forel, 1893*****Polyrhachis terpsichore terpsichore* Forel, 1893**

***Polyrhachis terpsichore*** Forel, A. (1893). Nouvelles fourmis d'Australie et des Canaries. *Ann. Soc. Entomol. Belg.* **37**: 454–466 [455]. Type data: syntypes, GMNH W, from Adelaide River, N.T.

Distribution: N coastal, N.T. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest arboreal.

***Polyrhachis terpsichore elegans* Forel, 1910**

***Polyrhachis terpsichore elegans*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [84]. Type data: syntypes, GMNH W, from Kuranda near Cairns, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest arboreal.

***Polyrhachis terpsichore rufifemur* Forel, 1907**

***Polyrhachis terpsichore rufifemur*** Forel, A. (1907). Formicides du Musée National Hongrois. *Ann. Hist.-Nat. Mus. Natl. Hung.* **5**: 1–42 [30 June 1907] [41]. Type data: syntypes (probable), probably in GMNH or MNH, from Springwood, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, open forest; nest arboreal.

***Polyrhachis thais* Forel, 1910**

***Polyrhachis thais*** Forel, A. (1910). Formicides australiens reçus de MM. Froggatt et Rowland Turner. *Rev. Suisse Zool.* **18**: 1–94 [86]. Type data: syntypes, GMNH W, from Kuranda near Cairns, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis thalia* Forel, 1902*****Polyrhachis thalia thalia* Forel, 1902**

***Polyrhachis thalia*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [530]. Type data: syntypes, GMNH W, from Charters Towers, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis thalia io* Forel, 1915**

***Polyrhachis (Campomyrma) thalia io*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [114]. Type data: syntypes, GMNH W, other syntypes may exist, from Derby, W.A.

Distribution: N coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis thusnelda* Forel, 1902**

***Polyrhachis thusnelda*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [509]. Type data: syntypes, GMNH W,F,M, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis townsvillei* Donisthorpe, 1938**

***Polyrhachis (Cyrtomyrma) townsvillei*** Donisthorpe, H. (1938). The subgenus *Cyrtomyrma* Forel of *Polyrhachis* Smith, with descriptions of new species, etc. *Ann. Mag. Nat. Hist. (11)* 1: 246–267 [251]. Type data: syntypes, BMNH \*W,F, from Townsville, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, closed forest; nest arboreal.

***Polyrhachis trapezoidea* Mayr, 1876**

***Polyrhachis trapezoidea*** Mayr, G.L. (1876). Die australischen Formiciden. *J. Mus. Godeffroy*, 5: 56–115 [72]. Type data: syntypes, NHMW \*W,F,M, from Rockhampton and Peak Downs, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis tubifera* Forel, 1902**

***Polyrhachis tubifera*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [517]. Type data: syntypes, GMNH W,M, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis turneri* Forel, 1895**

***Polyrhachis turneri*** Forel, A. (1895). Nouvelles fourmis de diverses provenances, surtout d'Australie. *Ann. Soc. Entomol. Belg.* 39: 41–49 [45]. Type data: syntypes, GMNH W, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, open forest, closed forest; nest arboreal.

***Polyrhachis urania* Forel, 1902**

***Polyrhachis urania*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [516]. Type data: syntypes, GMNH W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Polyrhachis zimmerae* Clark, 1941**

***Polyrhachis (Campomyrma) zimmerae*** Clark, J. (1941). Australian Formicidae. Notes and new species. *Mem. Natl. Mus. Vict.* 12: 71–94 [92 pl 13]. Type data: syntypes, NMV \*W, from Mt. Manfred, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in soil.

***Prolasius* Forel, 1892**

***Prolasius*** Forel, A. (1892). Die Ameisen Neu-Seelands. *Mitt. Schweiz. Entomol. Ges.* 8: 331–343 [331] [proposed with subgeneric rank in *Melophorus* Lubbock, 1883]. Type species *Formica advena* F. Smith, 1862 by monotypy.

This group is also found in New Guinea and New Zealand.

***Prolasius abruptus* Clark, 1934**

***Prolasius abruptus*** Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* 8: 48–73 [66 pl 4]. Type data: syntypes (probable), NMV \*W, from Gellibrand, Vic.

Distribution: SE coastal, N.S.W., Vic. Ecology: terrestrial, nocturnal, omnivore, open forest, closed forest; nest in ground layer.

***Prolasius antennatus* McAreavey, 1947**

***Prolasius antennata*** McAreavey, J.J. (1947). New species of the genera *Prolasius* Forel and *Melophorus* Lubbock (Hymenoptera : Formicidae). *Mem. Natl. Mus. Vict.* 15: 7–27 [Oct. 1947] [13 pl 1]. Type data: syntypes, NMV \*W, from Ludlow, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Prolasius bruneus* McAreavey, 1947**

***Prolasius brunea*** McAreavey, J.J. (1947). New species of the genera *Prolasius* Forel and *Melophorus* Lubbock (Hymenoptera : Formicidae). *Mem. Natl. Mus. Vict.* 15: 7–27 [Oct. 1947] [16 pl 1]. Type data: syntypes (probable), NMV \*W, from Millgrove, Vic.

Distribution: SE coastal, N.S.W., Vic. Ecology: terrestrial, nocturnal, omnivore, granivore, woodland, open forest; nest in ground layer.

***Prolasius clarki* McAreavey, 1947**

***Prolasius clarki*** McAreavey, J.J. (1947). New species of the genera *Prolasius* Forel and *Melophorus* Lubbock (Hymenoptera : Formicidae). *Mem. Natl. Mus. Vict.* 15: 7–27 [Oct. 1947] [15 pl 1]. Type data: syntypes, NMV \*W,F, from Barrington Tops, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Prolasius convexus* McAreavey, 1947**

***Prolasius convexus*** McAreavey, J.J. (1947). New species of the genera *Prolasius* Forel and *Melophorus* Lubbock (Hymenoptera : Formicidae). *Mem. Natl. Mus. Vict.* 15: 7–27 [Oct. 1947] [15 pl 1]. Type data: syntypes, NMV \*W, from Dorrigo, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, nocturnal, omnivore, open forest, closed forest; nest in ground layer.

*Prolasius depressiceps* (Emery, 1914)

*Prolasius depressiceps depressiceps* (Emery, 1914)

*Melophorus depressiceps* Emery, C. (1914). Formiche d'Australia e di Samoa raccolte dal Prof. Silvestri nel 1913. *Boll. Lab. Zool. Gen. Agr. R. Scuola Agric. Portici* 8: 179-186 [30 Jan. 1914] [186]. Type data: syntypes, MCG \*W, from Katoomba, N.S.W.

Distribution: SE coastal, NE coastal, Vic., Qld., N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Prolasius depressiceps similis* McAreavey, 1947

*Prolasius depressiceps similis* McAreavey, J.J. (1947). New species of the genera *Prolasius* Forel and *Melophorus* Lubbock (Hymenoptera : Formicidae). *Mem. Natl. Mus. Vict.* 15: 7-27 [Oct. 1947] [23 pl 1]. Type data: syntypes (probable), NMV \*W, from Mt. Kosciusko, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, alpine, woodland, open forest; nest in ground layer.

*Prolasius flavicornis* Clark, 1934

*Prolasius flavicornis flavicornis* Clark, 1934

*Prolasius flavicornis* Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* 8: 48-73 [69 pl 4]. Type data: syntypes, NMV \*W,F, from Beech Forest, Vic.

Distribution: SE coastal, Vic., N.S.W., Tas. Ecology: terrestrial, noctidiurnal, omnivore, granivore, woodland, open forest; nest in ground layer.

*Prolasius flavicornis minor* McAreavey, 1947

*Prolasius flavicornis minor* McAreavey, J.J. (1947). New species of the genera *Prolasius* Forel and *Melophorus* Lubbock (Hymenoptera : Formicidae). *Mem. Natl. Mus. Vict.* 15: 7-27 [Oct. 1947] [21 pl 1]. Type data: syntypes (probable), NMV \*W, from Sherbrooke Forest, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Prolasius flavidiscus* McAreavey, 1947

*Prolasius flavidiscus* McAreavey, J.J. (1947). New species of the genera *Prolasius* Forel and *Melophorus* Lubbock (Hymenoptera : Formicidae). *Mem. Natl. Mus. Vict.* 15: 7-27 [Oct. 1947] [21 pl 1]. Type data: syntypes, NMV \*W,F, from Mt. Ben Cairn, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Prolasius hellenae* McAreavey, 1947

*Prolasius hellenae* McAreavey, J.J. (1947). New species of the genera *Prolasius* Forel and *Melophorus* Lubbock (Hymenoptera : Formicidae). *Mem. Natl. Mus. Vict.* 15: 7-27 [Oct. 1947] [13 pl 1]. Type data: syntypes (probable), NMV \*W, from Katoomba, N.S.W.

Distribution: SE coastal, Vic., N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, granivore, woodland, open forest; nest in ground layer.

*Prolasius hemiflavus* Clark, 1934

*Prolasius hemiflavus hemiflavus* Clark, 1934

*Prolasius hemiflavus* Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* 8: 48-73 [68 pl 4]. Type data: syntypes, NMV \*W,F, from Beech Forest, Vic.

Distribution: SE coastal, Murray-Darling basin, N.S.W., Tas., Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Prolasius hemiflavus wilsoni* McAreavey, 1947

*Prolasius hemiflavus wilsoni* McAreavey, J.J. (1947). New species of the genera *Prolasius* Forel and *Melophorus* Lubbock (Hymenoptera : Formicidae). *Mem. Natl. Mus. Vict.* 15: 7-27 [Oct. 1947] [18 pl 1]. Type data: syntypes (probable), NMV \*W, from Bogong Plains, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, omnivore, alpine, woodland, open forest; nest in ground layer.

*Prolasius mjobergella* (Forel, 1916)

*Prenolepis mjobergi* Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910-1913. 2. Ameisen. *Ark. Zool.* 9: 1-119 pls 1-3 [4 Dec. 1915] [93] [*non Prenolepis vividula mjobergi* Forel, 1908]. Type data: syntypes, GMNH W, ANIC W, other syntypes may exist, from Malanda, Qld.

*Prenolepis mjobergella* Forel, A. in Santschi, F. (1916). Rectifications à la nomenclature de quelques formicides [Hym.]. *Bull. Soc. Entomol. Fr.* 1916: 242-243 [242] [*nom. nov.* for *Prenolepis mjobergi* Forel, 1915].

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, closed forest; nest in ground layer.

*Prolasius niger* Clark, 1934

*Prolasius niger* Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* 8: 48-73 [68 pl 4]. Type data: syntypes, NMV \*W, from Beech Forest, Vic.

Distribution: SE coastal, Murray-Darling basin, N.S.W., Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.



***Prolasius nigriventris* McAreavey, 1947**

***Prolasius nigriventris*** McAreavey, J.J. (1947). New species of the genera *Prolasius* Forel and *Melophorus* Lubbock (Hymenoptera : Formicidae). *Mem. Natl. Mus. Vict.* **15**: 7–27 [Oct. 1947] [17 pl 1]. Type data: syntypes, NMV \*W,M, from Deal Is., Vic.

Distribution: SE coastal, Tas., Vic.; Bass Strait. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Prolasius nitidissimus* (E. André, 1896)**

***Prolasius nitidissimus nitidissimus*** (E. André, 1896)

***Formica nitidissima*** André, E. (1896). Fourmis nouvelles d'Asie et d'Australie. *Rev. Entomol.* **15**: 251–265 [255]. Type data: syntypes, MNHP W, ANIC W, from Victorian Alps.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, omnivore, alpine, woodland, open forest; nest in ground layer.

***Prolasius nitidissimus formicoides* (Forel, 1902)**

***Melophorus formicoides*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [483]. Type data: syntypes, GMNH W,F, ANIC W, from Mackay, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Prolasius pallidus* Clark, 1934**

***Prolasius pallidus*** Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* **8**: 48–73 [67 pl 4]. Type data: syntypes, NMV \*W,F, from Beech Forest, Vic.

Distribution: SE coastal, Murray-Darling basin, N.S.W., Tas., Vic. Ecology: terrestrial, noctidiurnal, omnivore, granivore, woodland, open forest; nest in ground layer.

***Prolasius quadratus* McAreavey, 1947**

***Prolasius quadrata*** McAreavey, J.J. (1947). New species of the genera *Prolasius* Forel and *Melophorus* Lubbock (Hymenoptera : Formicidae). *Mem. Natl. Mus. Vict.* **15**: 7–27 [Oct. 1947] [19 pl 1]. Type data: syntypes, NMV \*W, from Mt. Kosciusko, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, granivore, alpine, woodland, open forest; nest in ground layer.

***Prolasius reticulatus* McAreavey, 1947**

***Prolasius reticulata*** McAreavey, J.J. (1947). New species of the genera *Prolasius* Forel and *Melophorus* Lubbock (Hymenoptera : Formicidae). *Mem. Natl. Mus. Vict.* **15**: 7–27 [Oct. 1947] [22 pl 1]. Type data: syntypes, NMV \*W, from Mundaring, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Prolasius robustus* McAreavey, 1947**

***Prolasius robustus*** McAreavey, J.J. (1947). New species of the genera *Prolasius* Forel and *Melophorus* Lubbock (Hymenoptera : Formicidae). *Mem. Natl. Mus. Vict.* **15**: 7–27 [Oct. 1947] [20 pl 1]. Type data: syntypes, NMV \*W, from Fern Tree Gully, Vic.

Distribution: SE coastal, Murray-Darling basin, N.S.W., Tas., Vic. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Prolasius wheeleri* McAreavey, 1947**

***Prolasius wheeleri*** McAreavey, J.J. (1947). New species of the genera *Prolasius* Forel and *Melophorus* Lubbock (Hymenoptera : Formicidae). *Mem. Natl. Mus. Vict.* **15**: 7–27 [Oct. 1947] [22 pl 1]. Type data: syntypes, NMV \*W, from King's Park, Perth, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Pseudolasius* Emery, 1887**

***Pseudolasius*** Emery, C. (1887). Catalogo delle Formiche esistenti nelle collezioni del Museo Civico di Genova. Parte terza. Formiche della regione Indo-Malese e dell'Australia. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **25**: 209–258 [244 pls 3–4]. Type species *Formica familiaris* F. Smith, 1859 by subsequent designation, see Bingham, C.T. (1903). *The Fauna of British India, including Ceylon and Burma*. Hymenoptera. Vol. 2 Ants and cuckoo-wasps. London : Taylor & Francis [337].

This group is also found in the Ethiopian and Oriental regions; New Guinea and east Melanesia in Australian Region, see Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Pseudolasius australis* Forel, 1915**

***Pseudolasius australis*** Forel, A. (1915). Results of Dr. E. Mjöberg's Swedish Scientific Expeditions to Australia 1910–1913. 2. Ameisen. *Ark. Zool.* **9**: 1–119 pls 1–3 [4 Dec. 1915] [94]. Type data: syntypes, GMNH W, other syntypes may exist, from Australia.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, closed forest; nest in ground layer.

***Pseudonotoncus* Clark, 1934**

***Pseudonotoncus*** Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* **8**: 48–73 [64 pl 4]. Type

species *Pseudonotoncus hirsutus* Clark, 1934 by original designation.

***Pseudonotoncus hirsutus* Clark, 1934**

*Pseudonotoncus hirsutus* Clark, J. (1934). Ants from the Otway Ranges. *Mem. Natl. Mus. Vict.* 8: 48–73 [65 pl 4]. Type data: syntypes, NMV \*W,F, from Gellibrand, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, nocturnal, omnivore, open forest, closed forest; nest in ground layer.

***Pseudonotoncus turneri* Donisthorpe, 1937**

*Pseudonotoncus turneri* Donisthorpe, H. (1937). Some new forms of Formicidae and a correction. *Ann. Mag. Nat. Hist.* (10) 19: 619–628 [619]. Type data: holotype, BMNH \*W, from Tambourin (=Tamborine) Mt., Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, open forest, closed forest; nest in ground layer.

***Stigmacros* Forel, 1905**

*Acrostigma* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* 10: 405–548 [477] [*non Acrostigma* Emery, 1890; described with subgeneric rank in *Acantholepis* Mayr, 1861]. Type species *Acantholepis* (*Acrostigma*) *froggatti* Forel, 1902 by subsequent designation, see Wheeler, W.M. (1911). A list of the type species of the genera and subgenera of Formicidae. *Ann. N.Y. Acad. Sci.* 21: 157–175 [17 Oct. 1911].

*Stigmacros* Forel, A. (1905). Miscellaneous myrmécologiques 2 (1905). *Ann. Soc. Entomol. Belg.* 49: 155–185 [179] [*nom. nov.* for *Acrostigma* Forel, 1902].

*Hagiostigmacros* McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* 21: 7–64 [6 Aug. 1957] [19] [proposed with subgeneric rank in *Stigmacros* Forel, 1905]. Type species *Stigmacros barretti* Santschi, 1928 by original designation.

*Chariostigmacros* McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* 21: 7–64 [6 Aug. 1957] [23] [proposed with subgeneric rank in *Stigmacros* Forel, 1905]. Type species *Stigmacros* (*Chariostigmacros*) *hirsuta* McAreavey, 1957 by original designation.

*Pseudostigmacros* McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* 21: 7–64 [6 Aug. 1957] [24] [proposed with subgeneric rank in *Stigmacros* Forel, 1905]. Type species *Stigmacros* (*Pseudostigmacros*) *inermis* McAreavey, 1957 by original designation.

*Campostigmacros* McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* 21: 7–64 [6 Aug. 1957] [25] [proposed with subgeneric rank in *Stigmacros* Forel, 1905]. Type species *Acantholepis* (*Stigmacros*) *aemula* Forel, 1907 by original designation.

*Cyrtostigmacros* McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* 21: 7–64 [6 Aug. 1957] [35] [proposed with subgeneric rank in *Stigmacros* Forel, 1905]. Type species *Acantholepis* (*Acrostigma*) *australis* Forel, 1902 by original designation.

Synonymy that of Brown, W.L. jr. (1973). A comparison of the Hylean and Congo-West African rain forest ant faunas. pp. 161–185 in Meggers, B.J., Ayensu, E.S. & Duckworth, W.D. (eds.) *Tropical forest ecosystems in Africa and South America: a comparative review*. Washington : Smithsonian Institution Press.

***Stigmacros aciculata* McAreavey, 1957**

*Stigmacros* (*Cyrtostigmacros*) *aciculata* McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* 21: 7–64 [6 Aug. 1957] [50]. Type data: syntypes (probable), NMV \*W, from Brisbane, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmacros acuta* McAreavey, 1957**

*Stigmacros* (*Stigmacros*) *acuta* McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* 21: 7–64 [6 Aug. 1957] [12]. Type data: syntypes, NMV \*W, from Mt. Lofty, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmacros aemula* (Forel, 1907)**

*Acantholepis* (*Stigmacros*) *aemula* Forel, A. (1907). Formicidae. pp. 263–310 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Jena : G. Fischer Vol.1 [298]. Type data: holotype, probably destroyed in ZMH in WW II, from Fremantle, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmacros anthracina* McAreavey, 1957**

*Stigmacros* (*Campostigmacros*) *anthracina* McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* 21: 7–64 [6 Aug. 1957] [29]. Type data: syntypes (probable), NMV \*W, from Mt. Lofty, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, nocturnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmacros armstrongi* McAreavey, 1957**

*Stigmacros* (*Cyrtostigmacros*) *armstrongi* McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* 21: 7–64 [6 Aug. 1957] [52]. Type data: syntypes, NMV \*W, from Nyngan, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, nocturnal, omnivore, woodland; nest in ground layer.

*Stigmatocros australis* (Forel, 1902)

*Acantholepis (Acrostigma) australis* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [479]. Type data: syntypes, GMNH W, ANIC W, from Wollongbar, Richmond River, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Stigmatocros barretti* Santschi, 1928

*Stigmatocros barretti* Santschi, F. (1928). Nouvelles fourmis d'Australie. *Bull. Soc. Vaud. Sci. Nat.* **56**: 465–483 [30 Aug. 1928] [477]. Type data: syntypes, BNHM W, from Ringwood, Vic.

Distribution: SE coastal, Murray-Darling basin, N.S.W., Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Stigmatocros bosii* (Forel, 1902)

*Acantholepis (Acrostigma) bosii* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [481]. Type data: syntypes, GMNH W, ANIC W, from Queanbeyan, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Stigmatocros brachytera* McAreavey, 1957

*Stigmatocros (Campostigmatocros) brachytera* McAreavey, J.J. (1957). Revision of the genus *Stigmatocros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [27]. Type data: syntypes, NMV \*W,F, from Margaret River, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Stigmatocros brevispina* McAreavey, 1957

*Stigmatocros (Stigmatocros) brevispina* McAreavey, J.J. (1957). Revision of the genus *Stigmatocros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [14]. Type data: syntypes, NMV \*W, from Bogong Plains, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Stigmatocros brooksi* McAreavey, 1957

*Stigmatocros (Cyrtostigmatocros) brooksi* McAreavey, J.J. (1957). Revision of the genus *Stigmatocros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [42]. Type data: syntypes, NMV \*W,F,M, from Manjimup, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Stigmatocros castanea* McAreavey, 1957

*Stigmatocros (Cyrtostigmatocros) castanea* McAreavey, J.J. (1957). Revision of the genus *Stigmatocros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [49]. Type data: syntypes, NMV \*W,F,M, from Canberra, A.C.T.

Distribution: Murray-Darling basin, N.S.W., A.C.T. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Stigmatocros clarki* McAreavey, 1957

*Stigmatocros (Cyrtostigmatocros) clarki* McAreavey, J.J. (1957). Revision of the genus *Stigmatocros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [41]. Type data: syntypes (probable), NMV \*W, from Ludlow, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Stigmatocros clivispina* (Forel, 1902)

*Acantholepis (Acrostigma) clivispina* Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [482]. Type data: syntypes, GMNH W, ANIC W, from Cooma, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Stigmatocros elegans* McAreavey, 1949

*Stigmatocros elegans* McAreavey, J.J. (1949). Australian Formicidae. New genera and species. *Proc. Linn. Soc. N.S.W.* **74**: 1–25 [15 June 1949] [24]. Type data: holotype, ANIC W, from Nyngan, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Stigmatocros epinotalis* McAreavey, 1957

*Stigmatocros (Campostigmatocros) epinotalis* McAreavey, J.J. (1957). Revision of the genus *Stigmatocros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [28] [introduced as *Compostigmatocros*]. Type data: syntypes, NMV \*W, from Booang, W.A.

Distribution: NW coastal, SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

*Stigmatocros extreminigra* McAreavey, 1957

*Stigmatocros (Cyrtostigmatocros) extreminigra* McAreavey, J.J. (1957). Revision of the genus *Stigmatocros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [48]. Type data: syntypes, NMV \*W, from Wyperfeld, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.



***Stigmacros ferruginea* McAreavey, 1957**

***Stigmacros (Cyrtostigmacros) ferruginea*** McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [46]. Type data: syntypes, NMV \*W, from Mt. Lofty, S.A.

Distribution: S Gulfs, SE coastal, Vic., N.S.W., S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmacros flava* McAreavey, 1957**

***Stigmacros (Cyrtostigmacros) flava*** McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [40] [introduced as *Cyrtostigmacros*]. Type data: syntypes (probable), NMV \*W, from Mundaring, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmacros flavinodis* Clark, 1938**

***Stigmacros flavinodis*** Clark, J. (1938). Reports of the McCoy Society for Field Investigation and Research. No. 2. Sir Joseph Bank Islands. Part I. Formicidae (Hymenoptera). *Proc. R. Soc. Vict.* **50**: 356–382 [375]. Type data: syntypes, NMV \*W, from Reevesby Is., S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmacros froggatti* (Forel, 1902)**

***Acantholepis (Acrostigma) froggatti*** Forel, A. (1902). Fourmis nouvelles d'Australie. *Rev. Suisse Zool.* **10**: 405–548 [478]. Type data: syntypes, GMNH W,F,M, ANIC W, from Bong Bong, N.S.W.

***Acantholepis (Stigmacros) fossulata*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 25–39 [34]. Type data: syntypes (probable), ZMB \*W, from Trial Bay, N.S.W.

***Acantholepis (Stigmacros) foreli*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 25–39 [34]. Type data: syntypes, ZMB \*W,M,F, ANIC W, from Trial Bay, N.S.W.

Synonymy that of McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [10].

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmacros glauerti* McAreavey, 1957**

***Stigmacros (Cyrtostigmacros) glauerti*** McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [41]. Type data: syntypes (probable), NMV \*W, from Darlington, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmacros hirsuta* McAreavey, 1957**

***Stigmacros (Chariostigmacros) hirsuta*** McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [23]. Type data: syntypes, NMV \*W, from Kuranda, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, open forest, closed forest; nest in ground layer.

***Stigmacros impressa* McAreavey, 1957**

***Stigmacros (Stigmacros) impressa*** McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [14]. Type data: syntypes, NMV \*W, from Taggerty, Vic.

Distribution: Murray-Darling basin, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmacros inermis* McAreavey, 1957**

***Stigmacros (Pseudostigmacros) inermis*** McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [24]. Type data: syntypes, NMV \*W, from Nyngan, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmacros intacta* (Viehmeyer, 1925)**

***Acantholepis (Stigmacros) aemula intacta*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 25–39 [34]. Type data: syntypes, ZMB \*W, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer. Biological references: McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 (raised to species).

***Stigmacros lanaris* McAreavey, 1957**

***Stigmacros (Cyrtostigmacros) lanaris*** McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [43]. Type data: syntypes, NMV \*W,F, from Pymble, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmacros major* McAreavey, 1957**

***Stigmacros (Cyrtostigmacros) major*** McAreavey, J.J. (1957). Revision of the genus *Stigmacros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [39]. Type data: syntypes (probable), NMV \*W, from National Park, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatos marginata* McAreavey, 1957**

***Stigmatos (Campostigmatos) marginata*** McAreavey, J.J. (1957). Revision of the genus *Stigmatos* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [27]. Type data: syntypes (probable), NMV \*W, from Gosford, N.S.W.

Distribution: SE coastal, Vic., N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatos medioreticulata* (Viehmeyer, 1925)**

***Acantholepis (Stigmatos) medioreticulata*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 25–39 [32]. Type data: holotype, ZMB \*W, from Trial Bay, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatos minor* McAreavey, 1957**

***Stigmatos (Stigmatos) minor*** McAreavey, J.J. (1957). Revision of the genus *Stigmatos* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [17]. Type data: syntypes, NMV \*W, from Brisbane, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatos nitida* McAreavey, 1957**

***Stigmatos (Campostigmatos) nitida*** McAreavey, J.J. (1957). Revision of the genus *Stigmatos* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [30]. Type data: syntypes, NMV \*W, from Fern Tree Gully, Vic.

Distribution: SE coastal, Murray-Darling basin, N.S.W., Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatos occidentalis* (Crawley, 1922)**

***Acantholepis (Stigmatos) occidentalis*** Crawley, W.C. (1922). New ants from Australia. *Ann. Mag. Nat. Hist.* (9) **10**: 16–36 [30]. Type data: syntypes (probable), OUM \*W, from Murray River, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatos pilosella* (Viehmeyer, 1925)**

***Acantholepis (Stigmatos) pilosella*** Viehmeyer, H. (1925). Formiciden der australischen Faunenregion. *Entomol. Mitt.* **14**: 25–39 [33]. Type data: holotype, ZMB \*W, from Liverpool, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatos proxima* McAreavey, 1957**

***Stigmatos (Cyrtostigmatos) proxima*** McAreavey, J.J. (1957). Revision of the genus *Stigmatos* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [51]. Type data: syntypes, NMV \*W, from Athol, N.S.W.

Distribution: Murray-Darling basin, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatos punctatissima* McAreavey, 1957**

***Stigmatos (Hagiostigmatos) punctatissima*** McAreavey, J.J. (1957). Revision of the genus *Stigmatos* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [22]. Type data: syntypes, NMV \*W, from Leura, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatos pusilla* McAreavey, 1957**

***Stigmatos (Stigmatos) pusilla*** McAreavey, J.J. (1957). Revision of the genus *Stigmatos* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [16]. Type data: syntypes, NMV \*W, from Canberra, A.C.T.

Distribution: Murray-Darling basin, N.S.W., A.C.T. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatos rectangularis* McAreavey, 1957**

***Stigmatos (Stigmatos) rectangularis*** McAreavey, J.J. (1957). Revision of the genus *Stigmatos* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [15]. Type data: syntypes, NMV \*W,M, from Mundaring, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatos reticulata* Clark, 1930**

***Stigmatos reticulata*** Clark, J. (1930). Some new Australian Formicidae. *Proc. R. Soc. Vict.* **42**: 116–128 [10 Mar. 1930] [127]. Type data: syntypes, NMV \*W,F, from Perth, W.A.

Distribution: SW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatos rufa* McAreavey, 1957**

***Stigmatos (Stigmatos) rufa*** McAreavey, J.J. (1957). Revision of the genus *Stigmatos* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [13]. Type data: syntypes (probable), NMV \*W, from Kallista, Vic.

Distribution: SE coastal, Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatocros sordida* McAreavey, 1957**

***Stigmatocros (Cyrtostigmatocros) sordida*** McAreavey, J.J. (1957). Revision of the genus *Stigmatocros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [52]. Type data: syntypes (probable), NMV \*W, from Adelaide, S.A.

Distribution: S Gulfs, S.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatocros spinosa* McAreavey, 1957**

***Stigmatocros (Hagiostigmatocros) spinosa*** McAreavey, J.J. (1957). Revision of the genus *Stigmatocros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [19]. Type data: syntypes, NMV \*W,F, from Nyngan, N.S.W.

Distribution: Murray-Darling basin, A.C.T., N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatocros stanleyi* McAreavey, 1957**

***Stigmatocros (Campostigmatocros) stanleyi*** McAreavey, J.J. (1957). Revision of the genus *Stigmatocros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [34]. Type data: syntypes (probable), NMV \*W, from Greensborough, Vic.

Distribution: SE coastal, N.S.W., Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatocros striata* McAreavey, 1957**

***Stigmatocros (Cyrtostigmatocros) striata*** McAreavey, J.J. (1957). Revision of the genus *Stigmatocros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [38] [introduced as *Cryptostigmatocros*]. Type data: syntypes, NMV \*W,F,M, from Hornsby, N.S.W.

Distribution: SE coastal, N.S.W. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatocros termitoxenus* Wheeler, 1936**

***Stigmatocros termitoxenus*** Wheeler, W.M. (1936). Ecological relations of ponerine and other ants to termites. *Proc. Am. Acad. Arts Sci.* **71**: 159–243 [215]. Type data: syntypes, MCZ \*W,F, from Mullewa, W.A.

Distribution: NW coastal, W.A. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Stigmatocros wilsoni* McAreavey, 1957**

***Stigmatocros (Stigmatocros) wilsoni*** McAreavey, J.J. (1957). Revision of the genus *Stigmatocros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [11]. Type data: syntypes, NMV \*W, from Cobunga (=Cobungra), Vic.

Distribution: Murray-Darling basin, N.S.W., Vic. Ecology: terrestrial, noctidiurnal, omnivore, woodland, open forest; nest in ground layer.

***Teratomyrmex* McAreavey, 1957**

***Teratomyrmex*** McAreavey, J.J. (1957). Revision of the genus *Stigmatocros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [54]. Type species *Teratomyrmex greavesi* McAreavey, 1957 by original designation.

***Teratomyrmex greavesi* McAreavey, 1957**

***Teratomyrmex greavesi*** McAreavey, J.J. (1957). Revision of the genus *Stigmatocros* Forel. *Mem. Natl. Mus. Vict.* **21**: 7–64 [6 Aug. 1957] [55]. Type data: syntypes, NMV \*W, from Blackall Range, Qld.

Distribution: NE coastal, Qld. Ecology: terrestrial, noctidiurnal, omnivore, closed forest; nest in ground layer.

***Incertae sedis***

***Formica amyoti*** Le Guillou, E.J.F. (1841). Catalogue raisonné des insectes hyménoptères recueillis dans le voyage de circumnavigation des corvettes l'*Astrolabe* et la *Zélée*. *Ann. Soc. Entomol. Fr.* **10**: 311–324 [315]. Type data: syntypes (probable), MNHP (probable) \*W, from northern Australia.

***Ponera oculata*** Smith, F. (1858). *Catalogue of hymenopterous insects in the collection of the British Museum*. Part 6. Formicidae. London: British Museum 216 pp. 14 pls [27 Mar. 1858] [93]. Publication date established from Donisthorpe, H. (1932). On the identity of Smith's types of Formicidae (Hymenoptera) collected by Alfred Russell Wallace in the Malay Archipelago, with descriptions of two new species. *Ann. Mag. Nat. Hist. (10)* **10**: 441–476. Type data: syntypes (probable), BMNH \*M, from Macintyre, N.S.W.

***Formica inequalis*** Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* **2**: 331–336 [331]. Type data: syntypes, BMNH (probable) \*M,F, from Sidney (=Sydney), N.S.W.

***Formica minuta*** Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* **2**: 331–336 [331]. Type data: syntypes (probable), BMNH (probable) \*W, from Sidney (=Sydney), N.S.W.

***Formica purpurescens*** Lowne, B.T. (1865). Contributions to the natural history of Australian ants. *Entomologist* **2**: 331–336 [331]. Type data: syntypes, BMNH (probable) \*W,F, from Sidney (=Sydney), N.S.W.



# VESPOIDEA AND SPHECOIDEA

Josephine C. Cardale

## INTRODUCTION

The Sphecoidea and Vespoidea are among the largest and most conspicuous aculeate Hymenoptera. The habits of the Vespidae (papernest wasps, hornets) and of some of the mud-nest builders bring them into direct conflict with man, but they are also useful, as biological control agents (preying on other insects, especially larval Lepidoptera) and as potential pollination agents.

As predatory wasps, the females collect insects or other arthropods to feed their larvae, except for the Masaridae where it appears that most species provision their nest cells with pollen and nectar. Adults of some species feed on the body fluids of their prey, but in most species the adults require carbohydrates, usually taken as nectar, but sometimes as honeydew or plant sap. Except for the family Vespidae, these wasps are solitary. In general, after mating, each female constructs a cell (in a burrow in the soil, a previously existing cavity or specially-built nest), lays an egg before or after provisioning the cell, seals the cell, and commences another cell. Large nesting aggregations may be formed, especially in soil-nesting species, but these aggregations are not social. The social wasps (Vespidae) show cooperation and at least some division of labour occurs between females (mothers and daughters, or sisters) in the construction and provisioning of their "paper" nests. Larvae are fed progressively and the cell is not sealed until the larva is ready to pupate. Some species of Sphecidae also show "subsocial" behaviour: communal nesting or progressive feeding.

Study of the diversity and complexity of behaviour during nest construction and provisioning among these wasps has been undertaken both in the field and laboratory. Studies of the interactions between individuals and division of labour among subsocial and social wasps have contributed to the understanding of the organisation of insect societies and the development of social behaviour. There are, however, comparatively few Australian species whose biology is known, and behavioural research here is hindered by problems in identifying species. Although these two superfamilies are among the best known of the Australian wasps, the identity of many species is uncertain. The presence of much type material, often single specimens, in museums outside Australia, the need for redescription of species associated with some of the early nomenclature and description of the unnamed material found in virtually every museum collection has hindered the work essential to a better knowledge of these wasps. A particularly striking example of the problems facing students of Australian wasps is shown by *Bembix*, a genus of comparatively large, conspicuous species. Although Evans and Matthews (1973) were interested in comparative behaviour, they found that it was first necessary to study the systematics of the genus. Prior to their work it was believed that there were about 35 species of *Bembix* in Australia; their revision recognised 80 species, 55 of which were described as new. Since then, Evans (1982) has described two new species.

In many species adults emerge, mate and build nests in a few weeks. This short period of activity, which is related to the availability of flowers for nectar, water for nest building, and suitable prey for their larvae, makes systematic collection of the species of any given area quite difficult. The climatic extremes in Australia of drought or flood may be the most significant factor controlling reproduction among these wasps.

The first description of Hymenoptera from Australia was by Fabricius (1775). The only published catalogue of Australian Hymenoptera is that of Froggatt (1891, 1892); Australian species have been included in various world catalogues, such as those of Dalla Torre (1894, 1897) and the *Genera Insectorum* series (Dalla Torre, 1904). The modern *Hymenopterorum Catalogus* series covers comparatively few families as yet though the Palaearctic Eumenidae has been catalogued by van der Vecht and Fischer (1972). Thus, for anyone starting research on Australian wasps, extensive library work is needed to discover which species have been described or recorded from Australia, what revisionary work, if any, has been done and whether any biological studies have been made. The Australian National Insect Collection card catalogue containing all references to Australian Hymenoptera, the revision of Masaridae by Richards (1962), the revision of Australian Vespidae by Richards (1978) and the world generic revision of the Sphecidae by Bohart and Menke (1976) were used as a framework for the compilation of this portion of the *Zoological Catalogue of Australia*. The absence of a generic revision of the Eumenidae has meant that this section lacks the authoritative structuring of the remainder of the catalogue.

## CLASSIFICATION

A conservative classification, as used by Riek (1970) and Riek & Cardale (1974), has been followed here; the Vespoidea is divided into the families Masaridae, Vespidae and Eumenidae. Only one family, the Sphecidae, is included in the Sphecoidea, following Bohart and Menke (1976) who treated the Ampulicinae as a subfamily of the Sphecidae. Although the Australian genus *Sericogaster* Westwood, 1835 was believed by early workers to belong in the Sphecidae, it was transferred to the Colletidae (Apoidea) by Menke & Michener (1973) and is not included here.

Carpenter (1982) has proposed a reclassification of the Vespoidea, with the single family Vespidae divided into six subfamilies. Under this scheme, Australian species fall into the subfamilies Masarinae, Eumeninae and Polistinae, with *Vespula* in the Vespinae. Brothers (1975) reviewed the phylogeny and classification of aculeate Hymenoptera and divided them into three superfamilies: the Bethyloidea, the Vespoidea including the Scolioidea, Pompiloidea and Formicoidea of Riek (1970) and the Sphecoidea including Apoidea of Riek (1970).

## NOTES ON THE CATALOGUE

### Family Introductions

A brief account is given of the size and biology of each family, concluding with the major Australian taxonomic reference and general biological references.

### Generic Arrangement

The arrangement within each family, except the Eumenidae, follows that of the most recent revision. In the Eumenidae the genera are listed in alphabetical order.

### Name Combinations

Species names are usually listed in the latest published combination; previously used combinations are given after the reference in which they first occur.

### Synonymy

Full details are given for all Australian genera and species for which synonymies occur and a reference is given in which these details occur.

### Type Information

This is given almost exclusively for holotypes; details of "allotypes" and paratypes will be found by consulting the references. The listed information is based on the original publication, notes in revisionary works and, for specimens in Australian museums, from labels or information supplied by curators (see Acknowledgements). It is possible that a few of the holotypes listed here may not have that status. Types in non-Australian collections were not checked though many of the holotypes in the British Museum (Natural History) were seen by L.F. Graham in 1929 and this information is noted where appropriate in this catalogue.

**Date of Publication**

The date, or order of publication, listed by Musgrave (1932) is used.

**Distribution**

The species distributions are from published data; where five or fewer localities were published, they are listed in full. It should be noted that the A.C.T. is seldom mentioned among the States because there are few published distribution records; many of the species recorded from the Murray-Darling basin, N.S.W., occur in the A.C.T. On older labels, "Tasmania" is often erroneous, the species being found only on mainland Australia. "New Guinea" is used in the zoogeographic sense; many of the references to distribution pre-date the formation of Papua New Guinea and West Irian. Some non-Australian localities have been given their modern names (or spelling) but it was not possible to check all of them.

**Ecological Information**

Comparatively little is known of the ecology of these wasps except for a few well studied species. All available biological references, including redescrptions and taxonomic decisions, are listed for most species.

**ACKNOWLEDGEMENTS**

Preparation of this catalogue was undertaken as part of my work in the Australian National Insect Collection (A.N.I.C.), Division of Entomology, C.S.I.R.O., Canberra, with full use of their resources and facilities, and several members of the staff have assisted me. Dr E.F. Riek, formerly of the A.N.I.C., instigated my work on the card catalogue; Dr I.D. Naumann has supported and encouraged publication of this compilation; Dr K.H.L. Key gave advice on a nomenclatural problem; Dr M.J. Dallwitz developed a computer prompts program (ENCAT) especially for use in this work; Mrs J.E. Pyke has been of great assistance in solving problems connected with data entry.

The Australian Biological Resources Study provided funds for assistance during the preparation of the catalogue, and I am grateful to Dr D.W. Walton and Dr B. Richardson (Bureau of Flora and Fauna) for their editorial advice.

The assistance of the following is also acknowledged with gratitude: Dr J. van der Vecht (Putten, The Netherlands) provided advice on taxonomic problems in the Eumenidae; Dr M.C. Day (BMNH) and Dr H.E. Evans (Colorado State University) assisted in problems in the Vespidae and Sphecidae; information on the types of Vespoidea and Sphecoidea in their collections was provided by Mr E.C. Dahms and Ms G. Sarnes (QM), Dr E.G. Matthews (SAM), Dr T.F. Houston (WAM), Mr K.L. Walker (NMV), and Mr G.R. Brown (DARI); Mr G.A. Holloway (AM) provided assistance during my visits to that institution.

J.C.C.

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# MASARIDAE

## INTRODUCTION

This family contains medium to large sized, mostly non-predatory, solitary wasps, found on all continents, though the species are usually rare. Their distribution within Australia seems to have been reduced as settlement spread. There are four endemic genera with 28 included species and subspecies, with greatest diversity (and most of the recently collected specimens) found in arid areas. Adults are usually collected on flowers or at water. It appears that the Australian species provision their cells with nectar and pollen. Probably all nest in burrows in the ground though some non-Australian species construct mud-cells attached to trees and shrubs. Very little is known about their biology in Australia, apart from the species studied by Houston (1984).

## References

Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp.

Houston, T.F. (1984). Bionomics of a pollen-collecting wasp, *Paragia tricolor* Smith (Hymenoptera : Masaridae), in Western Australia. *Rec. W. Aust. Mus.* 11: 141-151.

### *Riekia* Richards, 1962

***Riekia*** Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. [54]. Type species *Riekia nocatunga* Richards, 1962 by monotypy and original designation.

#### ***Riekia angulata*** Richards, 1968

***Riekia angulata*** Richards, O.W. (1968). New records and new species of Australian Masaridae (Hymenoptera : Vespoidea). *J. Aust. Entomol. Soc.* 7: 101-104 [101]. Type data: holotype, ANIC F. adult, from Cunnamulla, Qld.

Distribution: Murray-Darling basin, Qld., N.S.W.; only published localities Cunnamulla and 90 km W of Cobar. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing.

#### ***Riekia nocatunga*** Richards, 1962

***Riekia nocatunga*** Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. [55]. Type data: holotype, ANIC F. adult, from 7 miles N of Nocatunga, N.S.W." in original description, should be Nockatunga, Qld.

Distribution: Bulloo River basin, Murray-Darling basin, Qld., N.S.W.; only published localities Nockatunga, Bourke and Cobar area. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Richards, O.W. (1968). New records and new species of Australian Masaridae (Hymenoptera : Vespoidea). *J. Aust. Entomol. Soc.* 7: 101-104 (flower record, locality).

### ***Rolandia*** Richards, 1962

***Rolandia*** Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. [57]. Type species *Paragia maculata* Meade-Waldo, 1910 by monotypy and original designation.

#### ***Rolandia maculata*** (Meade-Waldo, 1910)

***Paragia maculata*** Meade-Waldo, G. (1910). New species of Diptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (8) 5: 30-51 [32]. Type data: holotype, BMNH Hym.18.23 \*F. adult (seen 1929 by L.F. Graham), from W.A.

Distribution: SW coastal, W.A.; only published localities Yallingup, Perth and Yanchep. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Bequaert, J.C. (1928). A study of certain types of dipterous

wasps in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (10) 2: 138–176 (note on type); Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London: British Museum 294 pp. (redescription).

***Metaparagia* Meade-Waldo, 1911**

***Metaparagia*** Meade-Waldo, G. (1911). Notes on the family Masaridae (Hymenoptera), with descriptions of a new genus and three new species. *Ann. Mag. Nat. Hist.* (8) 8: 747–750 [748]. Type species *Paragia pictifrons* Smith, 1857 by original designation.

***Metaparagia doddi* Meade-Waldo, 1911**

***Metaparagia doddi*** Meade-Waldo, G. (1911). Notes on the family Masaridae (Hymenoptera), with descriptions of a new genus and three new species. *Ann. Mag. Nat. Hist.* (8) 8: 747–750 [748]. Type data: holotype, BMNH Hym.18.22 \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. (redescription).

***Metaparagia pictifrons* (Smith, 1857)**

***Paragia pictifrons*** Smith, F. (1857). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part V. Vespidae pp. 1–147 London : British Museum [2 pl I fig 1]. Type data: holotype, BMNH Hym.18.21 \*F. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. (redescription).

***Paragia* Shuckard, 1838**

Taxonomic decision of Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp.

***Paragia (Cygnaea)* Richards, 1962**

***Cygnaea*** Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. [53] [proposed with subgeneric rank in *Paragia* Shuckard, 1838]. Type species *Paragia vespiformis* Smith, 1865 by monotypy and original designation.

***Paragia (Cygnaea) vespiformis* Smith, 1865**

***Paragia vespiformis*** Smith, F. (1865). Descriptions of some new species of hymenopterous insects belonging to the families Thynnidae, Masaridae, and Apidae. *Trans.*

*Entomol. Soc. Lond.* (3) 2: 389–399 [393]. Type data: holotype, BMNH Hym.18.5 \*F. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

Distribution: SW coastal, NW coastal, W.A.; only published localities Swan River, Wurrarga (presumably Wurarga is meant) and Champion Bay. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Smith, F. (1868). Descriptions of aculeate Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* 1868: 231–258 (description of male); Smith, F. (1869). Descriptions of new genera and species of exotic Hymenoptera. *Trans. Entomol. Soc. Lond.* 1869: 301–311 pl vi (illustration); Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. (redescription).

***Paragia (Paragia)* Shuckard, 1838**

***Paragia*** Shuckard, W.E. (1838). Descriptions of new exotic aculeate Hymenoptera. *Trans. Entomol. Soc. Lond.* 2(1): 68–82 pl viii [81]. Type species *Paragia decipiens* Shuckard, 1838 by monotypy.

***Paragia (Paragia) decipiens* Shuckard, 1838**

Taxonomic decision of Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. [63].

***Paragia (Paragia) decipiens decipiens* Shuckard, 1838**

***Paragia decipiens*** Shuckard, W.E. (1838). Descriptions of new exotic aculeate Hymenoptera. *Trans. Entomol. Soc. Lond.* 2(1): 68–82 pl viii [82 pl viii fig 3]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from N.S.W.

Distribution: Murray-Darling basin, S Gulfs, Qld., N.S.W., Vic., S.A.; only published localities Qld., Lachlan River (Coopers Bridge), Lake Hattah and Adelaide. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Smith, F. (1865). Descriptions of some new species of hymenopterous insects belonging to the families Thynnidae, Masaridae, and Apidae. *Trans. Entomol. Soc. Lond.* (3) 2: 389–399 (description of male); Richards, O.W. (1968). New records and new species of Australian Masaridae (Hymenoptera : Vespoidea). *J. Aust. Entomol. Soc.* 7: 101–104 (locality, behaviour).

***Paragia (Paragia) decipiens aliciae* Richards, 1962**

***Paragia (Paragia) decipiens aliciae*** Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. [64]. Type data: holotype, ANIC F. adult, from Alice Springs, N.T.



Distribution: Murray-Darling basin, Lake Eyre basin, Qld., N.T.; only published localities Cunnamulla and Alice Springs. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing.

***Paragia (Paragia) schulthessi* Turner, 1936**

***Paragia schulthessi*** Turner, R.E. (1936). A new masarid wasp from Australia. *Ann. Mag. Nat. Hist.* (10) 18: 352. Type data: holotype, BMNH Hym.18.4 \*F. adult, from Dedari, W.A.

Distribution: W plateau, W.A.; type locality only. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. (redescription).

***Paragia (Paragia) smithii* Saussure, 1854**

***Paragia smithii*** Saussure, H. de (1854). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i-xvi (1854-1856) [55 pl II figs 1,1a]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

Distribution: SE coastal, Murray-Darling basin, Lake Eyre basin, S Gulfs, Vic., S.A., (W.A.), N.T.; only published localities Melbourne, Lake Hattah, Adelaide, Hermannsburg, records from "W. Australia" and "Africa" are probably incorrect. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Bequaert, J.C. (1928). A study of certain types of diplopterous wasps in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (10) 2: 138-176 (taxonomy); Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. (nest, redescription, distribution).

***Paragia (Paragia) tricolor* Smith, 1850**

***Paragia tricolor*** Smith, F. (1850). Descriptions of two new species of exotic Hymenoptera. *Trans. Entomol. Soc. Lond.* (2) 1: 41-42 pl v [41 pl v figs 1e-k]. Type data: lectotype, BMNH Hym.18.3 \*F. adult (seen 1929 by L.F. Graham), from Perth, W.A., designation by Saussure, H. de (1854-1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i-xvi.

***Paragia saussurii*** Smith, F. (1857). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part V. Vespidae pp. 1-147 London: British Museum [2] [unnecessary *nom. nov.* for *Paragia tricolor* Smith, 1850].

Taxonomic decision of Bequaert, J.C. (1928). A study of certain types of diplopterous wasps in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (10) 2: 138-176 [141].

Distribution: SW coastal, NW coastal, W plateau, W.A. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Bradley, J.C. (1922). The taxonomy of the masarid wasps, including a monograph on the North American species. *Univ. Calif. Publ. Entomol. Tech. Bull.* 1: 369-464 (figs); Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. (redescription, distribution); Houston, T.F. (1984). Bionomics of a pollen-collecting wasp, *Paragia tricolor* (Hymenoptera : Vespidae : Masarinae), in Western Australia. *Rec. West. Aust. Mus.* 11: 141-151 (biology).

***Paragia (Paragiella)* Richards, 1962**

***Paragiella*** Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. [53] [proposed with subgeneric rank in *Paragia* Shuckard, 1838]. Type species *Paragia odyneroides* Smith, 1850 by original designation.

***Paragia (Paragiella) australis* Saussure, 1853**

Taxonomic decision of Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. [67].

***Paragia (Paragiella) australis australis* Saussure, 1853**

***Paragia australis*** Saussure, H. de (1853). Note sur la tribu des Masariens et principalement sur le *Masaris vespiformis*. *Ann. Soc. Entomol. Fr. Bull.* (3) 1: xvii-xxi [xxi]. Type data: holotype, MNHP \*M. adult, from Australia (as New Holland).

Distribution: N.S.W.; type locality only (specimen labelled Australia, described from New Holland but later said to be from Tas. which is regarded as unlikely). Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing.

***Paragia (Paragiella) australis borealis* Richards, 1962**

***Paragia (Paragiella) australis borealis*** Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. [71]. Type data: holotype, ANIC F. adult, from 17 miles W of Morven, Qld." in original description; specimen labelled female type is from 30 (miles) SE Charleville, Qld.

Distribution: Murray-Darling basin, Qld. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing.

***Paragia (Paragiella) bicolor* Saussure, 1853**

***Paragia bicolor*** Saussure, H. de (1853). Note sur la tribu des Masariens et principalement sur le *Masaris vespiformis*. *Ann. Soc. Entomol. Fr. Bull.* (3) 1: xvii-xxi [xxi]. Type data: holotype, MNHP \*M. adult, from Australia (as New Holland).

Distribution: N.S.W.; type locality only. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Saussure, H. de (1854-1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i-xvi (redescription, illustration); Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. (redescription).

***Paragia (Paragiella) calida* Smith, 1865**

***Paragia calida*** Smith, F. (1865). Descriptions of some new species of hymenopterous insects belonging to the families Thynnidae, Masaridae, and Apidae. *Trans. Entomol. Soc. Lond.* (3) 2: 389-399 [392]. Type data: holotype, BMNH Hym.18.8 \*M. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

Distribution: (Murray-Darling basin), S Gulfs, NW coastal, (Vic.), S.A., W.A.; only published localities (Lake Hattah), Adelaide and Champion Bay. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Bequaert, J.C. (1928). A study of certain types of diplopterous wasps in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (10) 2: 138-176 (note on type); Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. (redescription); Richards, O.W. (1968). New records and new species of Australian Masaridae (Hymenoptera : Vespoidea). *J. Aust. Entomol. Soc.* 7: 101-104 (description of female, possibly this species, from Lake Hattah).

***Paragia (Paragiella) deceptrix* Smith, 1862**

***Paragia deceptor*** Smith, F. (1862). Descriptions of new species of Australian Hymenoptera, and of a species of *Formica* from New Zealand. *Trans. Entomol. Soc. Lond.* (3) 1: 53-62 [56]. Type data: holotype, BMNH Hym.18.14 \*F. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: NE coastal, SE coastal, Qld., N.S.W.; only published localities Brisbane, Rockhampton and Kenthurst. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Schulz, W.A. (1906). *Spolia Hymenopterologica*. Paderborn : Pape iii 356 pp. 1 pl (emendation of name); Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British

Museum 294 pp. (redescription); Richards, O.W. (1968). New records and new species of Australian Masaridae (Hymenoptera : Vespoidea). *J. Aust. Entomol. Soc.* 7: 101-104 (locality).

***Paragia (Paragiella) generosa* Richards, 1962**

***Paragia (Paragiella) generosa*** Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. [69]. Type data: holotype, ANIC F. adult, from 30 (miles) SSW Ayr, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing.

***Paragia (Paragiella) hirsuta* Meade-Waldo, 1911**

***Paragia hirsuta*** Meade-Waldo, G. (1911). Notes on the family Masaridae (Hymenoptera), with descriptions of a new genus and three new species. *Ann. Mag. Nat. Hist.* (8) 8: 747-750 [749]. Type data: holotype, BMNH Hym.18.18 \*M. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; only published localities Cairns and Brisbane. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Hacker, H. (1915). Notes on the genus *Megachile* and some rare insects collected during 1913-14. *Mem. Qd. Mus.* 3: 137-141 (locality); Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. (redescription).

***Paragia (Paragiella) magdalena* Turner, 1908**

***Paragia magdalena*** Turner, R.E. (1908). Two new diplopterous Hymenoptera from Queensland. *Trans. Entomol. Soc. Lond.* 1908: 89-91 [89]. Type data: holotype, BMNH Hym.18.16 \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Bequaert, J.C. (1928). A study of certain types of diplopterous wasps in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (10) 2: 138-176 (states type is male); Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. (redescription).

***Paragia (Paragiella) mimetica* Richards, 1968**

***Paragia (Paragiella) mimetica*** Richards, O.W. (1968). New records and new species of Australian Masaridae (Hymenoptera : Vespoidea). *J. Aust. Entomol. Soc.* 7: 101-104 [102]. Type data: holotype, ANIC M. adult, from 10 mi W Watheroo, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing.

***Paragia (Paragiella) morosa* Smith, 1868**

***Paragia morosa*** Smith, F. (1868). Descriptions of aculeate Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* **1868**: 231–258 [251]. Type data: holotype, BMNH Hym.18.19 \*F. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

Distribution: SW coastal, NW coastal, W plateau, W.A.; only published localities Champion Bay, Southern Cross and Dedari. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. (redescription).

***Paragia (Paragiella) nasuta* Smith, 1868**

***Paragia nasuta*** Smith, F. (1868). Descriptions of aculeate Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* **1868**: 231–258 [252]. Type data: holotype, BMNH Hym.18.12 \*F. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

Distribution: SW coastal, NW coastal, W plateau, W.A., (Qld.); only published localities Champion Bay, Swan River, Perenjori, Coolgardie and a questionable Qld. record. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. (redescription, distribution).

***Paragia (Paragiella) odyneroides* Smith, 1850**

***Paragia odyneroides*** Smith, F. (1850). Descriptions of two new species of exotic Hymenoptera. *Trans. Entomol. Soc. Lond.* (2) **1**: 41–42 pl v [42 pl v fig 2]. Type data: holotype, BMNH Hym.18.20 \*M. adult (seen 1929 by L.F. Graham), from Hunter River, N.S.W.

***Paragia bidens*** Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [59]. Type data: holotype, BMNH Hym.18.6 \*M. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

***Paragia praedator*** Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [59]. Type data: holotype, BMNH Hym.18.7 \*F. adult (seen 1929 by L.F. Graham), from Australia.

Taxonomic decision of Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. [75].

Distribution: NE coastal, SE coastal, Murray-Darling basin, S Gulfs, Qld., N.S.W., Vic., S.A. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Bequaert, J.C. (1928). A study of certain types of diplopterous wasps in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (10) **2**: 138–176 (states type is female); Richards, O.W. (1968). New records and new species of Australian Masaridae (Hymenoptera : Vespoidea). *J. Aust. Entomol. Soc.* **7**: 101–104 (localities).

***Paragia (Paragiella) perkinsi* Meade-Waldo, 1911**

***Paragia perkinsi*** Meade-Waldo, G. (1911). Notes on the family Masaridae (Hymenoptera), with descriptions of a new genus and three new species. *Ann. Mag. Nat. Hist.* (8) **8**: 747–750 [750]. Type data: holotype, BMNH Hym.18.17 \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; only published localities Cairns, near Springsure. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. (redescription).

***Paragia (Paragiella) propodealis* Richards, 1968**

***Paragia (Paragiella) propodealis*** Richards, O.W. (1968). New records and new species of Australian Masaridae (Hymenoptera : Vespoidea). *J. Aust. Entomol. Soc.* **7**: 101–104 [104]. Type data: holotype, ANIC F. adult, from Caldwell, N.S.W.

Distribution: Murray-Darling basin, N.S.W.; type locality only. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing.

***Paragia (Paragiella) sobrina* Smith, 1869**

***Paragia sobrina*** Smith, F. (1869). Descriptions of new genera and species of exotic Hymenoptera. *Trans. Entomol. Soc. Lond.* **1869**: 301–311 pl vi [309]. Type data: holotype, BMNH Hym.18.10 \*F. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

***Paragia excellens*** Smith, F. (1869). Descriptions of new genera and species of exotic Hymenoptera. *Trans. Entomol. Soc. Lond.* **1869**: 301–311 pl vi [309]. Type data: holotype, BMNH Hym.18.11 \*F. adult (seen 1929 by L.F. Graham), from Swan River, W.A. (not Champion Bay as given in original description), see Bequaert, J.C. (1928). A study of certain types of diplopterous wasps in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (10) **2**: 138–176.

Taxonomic decision of Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. [75].



Distribution: SW coastal, NW coastal, W.A.; only published localities Champion Bay, Southern Cross, Swan River and Galena. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing.

***Paragia (Paragiella) venusta*** Smith, 1865

***Paragia venusta*** Smith, F. (1865). Descriptions of some new species of hymenopterous insects belonging to the families Thynnidae, Masaridae, and Apidae. *Trans. Entomol. Soc. Lond. (3)* 2: 389-399 [393]. Type data: holotype, BMNH Hym.18.9 \*F. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

***Paragia concinna*** Smith, F. (1868). Descriptions of aculeate Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* 1868: 231-258 [251]. Type data: holotype, BMNH Hym.18.15 \*F. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

Taxonomic decision of Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. [69].

Distribution: SW coastal, NW coastal, W.A.; only published localities Swan River and Champion Bay. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing.

***Paragia (Paragiella) walkeri*** Meade-Waldo, 1910

***Paragia walkeri*** Meade-Waldo, G. (1910). New species of Diploptera in the collection of the British Museum. *Ann. Mag. Nat. Hist. (8)* 5: 30-51 [33]. Type data: holotype, BMNH Hym.18.13 \*M. adult (seen 1929 by L.F. Graham), from Adelaide River, N.T.

Distribution: Murray-Darling basin, N coastal, Qld., N.T.; only published localities Toowoomba, Stanthorpe and Adelaide River. Ecology: larva - sedentary, soil, mellivore : adult - volant, burrowing. Biological references: Richards, O.W. (1962). *A Revisional Study of the Masarid Wasps (Hymenoptera, Vespoidea)*. London : British Museum 294 pp. (redescription).

# EUMENIDAE

## INTRODUCTION

This cosmopolitan family, the mud, potter or mason wasps, contains small to large solitary wasps, with over 300 described Australian species and subspecies in 35 genera, many of them endemic. Some species are very common and conspicuous, building large mud nests on walls of houses. Adults are often collected on flowers or at water. Nests may be of mud cells built in the open (on house walls, rocks or vegetation), in burrows in the ground, or in wood. Some species use a paste of vegetable fibres to make their cells, and some species use abandoned mud nests of other species (Eumenidae or Sphecidae), partitioning large cells to the correct size. All Australian species appear to use larval Lepidoptera to provision their cells, though larval Coleoptera and Symphyta are also used by non-Australian eumenids.

Recent studies on the behaviour of Australian eumenids, not mentioned in the checklist because the species were not identified, include: Smith (1978) on *Paralastor* sp.; Smith & Alcock (1980) on *Epsilon* sp. (no Australian species named in this small tropical genus yet); Naumann (1983) on *Odynerus* sp., *Paralastor* sp., and *Abispa* sp.

## References

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- Evans, H.E. & West Eberhard, M.J. (1970). *The Wasps*. Ann Arbor : Univ. Michigan Press 265 pp.
- Smith, A.P. (1978). An investigation of the mechanisms underlying nest construction in the mud wasp *Paralastor* sp. (Hymenoptera : Eumenidae). *Anim. Behav.* **26**: 232–240
- Smith, A.P. & Alcock, J. (1980). A comparative study of the mating systems of Australian eumenid wasps (Hymenoptera). *Z. Tierpsychol.* **53**: 41–60
- Naumann, I.D. (1983). The biology of mud nesting Hymenoptera (and their associates) and Isoptera in rock shelters of the Kakadu Region, Northern Territory. *Aust. Natl. Parks & Wildl. Serv. Spec. Publ.* **10** pp. 127–189

### *Abispa* Mitchell, 1838

Taxonomic decision of van der Vecht, J. (1960). On *Abispa* and some other Eumenidae from the Australian region (Hymenoptera, Vespoidea). *Nova Guinea Zool.* **6**: 91–115 [94].

### *Abispa* (*Abispa*) Mitchell, 1838

*Abispa* Mitchell, T.L. (1838). *Three Expeditions into the Interior of Eastern Australia*, with descriptions of the recently explored region of Australia Felix, and of the present colony of New South Wales. Vol. i Journey in search of the Kindur in 1831–2. Expedition sent to

explore the course of the River Darling in 1835. London : T. & W. Boone [104] [proposed with subgeneric rank in *Vespa* Linnaeus, 1758]. Type species *Vespa* (*Abispa*) *australiana* Mitchell, 1838 by monotypy.

*Monerebia* Saussure, H. de (1852). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [98]. Publication date established from Griffin, F.J. (1939). On the dates of publication of Saussure (H. de) : *Études sur la famille des Vespides* 1–3,

1852–1858. *J. Soc. Bibliogr. Nat. Hist.* **1**: 211–212. Type species *Odynerus splendidus* Guérin, 1838 by subsequent designation, see van der Vecht, J. (1960). On *Abispa* and some other Eumenidae from the Australian region (Hymenoptera, Vespoidea). *Nova Guinea Zool.* **6**: 91–115.

This group is also found on New Guinea, see van der Vecht, J. (1960). On *Abispa* and some other Eumenidae from the Australian region (Hymenoptera, Vespoidea). *Nova Guinea Zool.* **6**: 91–115.

***Abispa (Abispa) australiana* Mitchell, 1838**

***Vespa (Abispa) australiana* Mitchell, T.L. (1838).** *Three Expeditions into the Interior of Eastern Australia*, with descriptions of the recently explored region of Australia Felix, and of the present colony of New South Wales. Vol. i Journey in search of the Kindur in 1831–2. Expedition sent to explore the course of the River Darling in 1835. London : T. & W. Boone [104]. Type data: syntypes (probable), adult whereabouts unknown, from Karaula River, N.S.W.

Distribution: Murray-Darling basin, N.S.W.; type locality only. Ecology: larva - sedentary, predator : adult - volant; mud-nest, prey larval Lepidoptera. Biological references: Bridwell, J.C. (1919). Miscellaneous notes on Hymenoptera. With descriptions of new genera and species. *Proc. Hawaii. Entomol. Soc.* **4**: 109–165 (taxonomy); van der Vecht, J. (1960). On *Abispa* and some other Eumenidae from the Australian region (Hymenoptera, Vespoidea). *Nova Guinea Zool.* **6**: 91–115 (taxonomy).

***Abispa (Abispa) ephippium* (Fabricius, 1775)**

***Vespa ephippium* Fabricius, J.C. (1775).** *Systema Entomologiae*, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus. Flensburgi et Lipsiae : Kortii xxvii 832 pp. [362]. Type data: holotype, BMNH \*F. adult, from Australia (as New Holland).

***Abispa meadewaldoensis* Perkins, R.C.L. (1914).** On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [623]. Type data: holotype, BMNH 18.238 \*adult, from Darwin, N.T.

Taxonomic decision of van der Vecht, J. (1960). On *Abispa* and some other Eumenidae from the Australian region (Hymenoptera, Vespoidea). *Nova Guinea Zool.* **6**: 91–115 [96].

Distribution: NE coastal, SE coastal, Murray-Darling basin, Lake Eyre basin, SW coastal, NW coastal, N coastal, Qld., N.S.W., Tas., W.A., N.T. Ecology: larva - sedentary, predator : adult - volant; mud-nest, prey larval Lepidoptera (Psychidae). Biological references: Hacker, H. (1918). Entomological contributions. *Mem. Qd. Mus.* **6**: 106–111 (biology, prey, as *Monerebia ephippium*); Raff, J.W. (1940). Notes on the

mason-wasp and its nest. *Vict. Nat.* **56**: 139–141 (biology); Smith, A.P. & Alcock, J. (1980). A comparative study of the mating systems of Australian eumenid wasps (Hymenoptera). *Z. Tierpsychol.* **53**: 41–60.

***Abispa (Abispa) laticincta* van der Vecht, 1960**

***Abispa (Abispa) laticincta* van der Vecht, J. (1960).** On *Abispa* and some other Eumenidae from the Australian region (Hymenoptera, Vespoidea). *Nova Guinea Zool.* **6**: 91–115 [97]. Type data: holotype, RMNH \*F. adult, from Cooktown, Qld.

Distribution: NE coastal, Qld.; only published localities Cooktown and Somerset. Ecology: larva - (sedentary), (predator) : adult - (volant); (mud-nest), (prey larval Lepidoptera).

***Abispa (Abispa) splendida* (Guérin, 1838)**

Taxonomic decision of van der Vecht, J. (1960). On *Abispa* and some other Eumenidae from the Australian region (Hymenoptera, Vespoidea). *Nova Guinea Zool.* **6**: 91–115 [96].

***Abispa (Abispa) splendida splendida* (Guérin, 1838)**

***Odynerus splendidus* Guérin-Ménéville, F.E. (1838).** Crustacés, Arachnides et Insectes. in Duperrey, L.J. (1838). *Voyage Autour du Monde, Exécuté par Ordre du Roi, sur la Corvette de la Majesté, La Coquille, Pendant les Années 1822, 1823, 1824, et 1825, ...* Zool. Vol. ii Pt. 2 Div. 1 Chap. xiii pp. 57–302 Paris : Bertrand [265]. Type data: holotype, RMNH \*M. adult, from Australia (as New Holland).

Distribution: NE coastal, SE coastal, Murray-Darling basin, Qld., N.S.W., Tas. Ecology: larva - sedentary, predator : adult - volant; mud-nest, prey larval Lepidoptera. Biological references: Roth, H.L. (1885). Notes on the habits of some Australian Hymenoptera Aculeata. (With description of a new species by W.F. Kirby). *J. Linn. Soc. Zool.* **18**: 318–328 (nest); Froggatt, W.W. (1894). On the nests and habits of Australian Vespidae and Larridae. *Proc. Linn. Soc. N.S.W. (2)* **9**: 27–34 (biology); Brewster, M.N., Brewster, A.A. & Crouch, N. (1946). *Life Stories of Australian Insects*. 2nd edn. Sydney : Dymock's viii 332 pp. (biology); Smith, A.P. & Alcock, J. (1980). A comparative study of the mating systems of Australian eumenid wasps (Hymenoptera). *Z. Tierpsychol.* **53**: 41–60.

***Abispa (Abispa) splendida australis* Smith, 1857**

***Abispa australis* Smith, F. (1857).** *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Pt. V. Vespidae. pp. 1–147 London : British Museum [42]. Type data: holotype, BMNH 18.237 \*F. adult (seen 1929 by L.F. Graham), from Port Essington, N.T.



Distribution: N coastal, N.T.; only published localities Port Essington, Darwin, Litchfield and "Daly". Ecology: larva - sedentary, predator : adult - volant; mud-nest, prey larval Lepidoptera. Biological references: Bridwell, J.C. (1919). Miscellaneous notes on Hymenoptera. With descriptions of new genera and species. *Proc. Hawaii. Entomol. Soc.* **4**: 109-165 (taxonomy).

***Acarodynerus* Giordani Soika, 1962**

***Acarodynerus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [146]. Type species *Odynerus clypeatus* Saussure, 1853 by original designation.

***Acarodynerus acarophilus* Giordani Soika, 1962**

***Acarodynerus acarophilus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [157]. Type data: holotype, BMNH \*F. adult, from Stradbroke Is., Qld.

Distribution: NE coastal, Qld., N.S.W.; only published localities Stradbroke Is., Sunnybank, Nambour and N.S.W. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 (distribution).

***Acarodynerus clypeatus* (Saussure, 1853)**

***Odynerus (Leionotus) clypeatus*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i-xx (1852-1853) [200]. Type data: syntypes (probable), MNHP \*adult, from Tas.; this locality is doubtful, see Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202.

Distribution: NE coastal, Qld.; only published localities Brisbane and "Tas." Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (redescription, locality); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 (taxonomy).

***Acarodynerus denticulatus* Giordani Soika, 1962**

***Acarodynerus denticulatus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e

della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [160]. Type data: syntypes, ZMB \*5F., 1M. adult, from Adelaide, S.A.

Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 (taxonomy).

***Acarodynerus dietrichianus* (Saussure, 1869)**

Taxonomic decision of Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [153].

***Acarodynerus dietrichianus dietrichianus* (Saussure, 1869)**

***Odynerus (Odynerus) dietrichianus*** Saussure, H. de (1869). Hyménoptères divers du Musée Godeffroy. *Stettin. Entomol. Ztg.* **30**: 53-64 [54]. Type data: syntypes (probable), MGH \*F. adult, from Rockhampton, Qld.

Distribution: NE coastal, N coastal, Qld., N.T. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934-1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7-53 (taxonomy); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 (taxonomy).

***Acarodynerus dietrichianus rufocaudatus* Giordani Soika, 1962**

***Acarodynerus dietrichianus rufocaudatus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [155]. Type data: holotype, SAMA \*F. adult, from Stewart River, Qld.

Distribution: NE coastal, Qld., S.A.; only published localities Stewart River and S.A. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 (description of male).

***Acarodynerus drewsenianus* Giordani Soika, 1962**

***Acarodynerus drewsenianus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [156]. Type data: holotype, UZM \*F. adult, from Australia (as New Holland).

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Acarodynerus exarmatus*** (Giordani Soika, 1937)

***Odynerus (Stenodynerus) exarmatus*** Giordani Soika, A. (1937). Description of three new *Stenodynerus* recently collected by R.E. Turner in W. Australia. *Ann. Mag. Nat. Hist.* (10) **20**: 356-360 [359]. Type data: lectotype, BMNH \*M adult, from Merredin, W.A., designation by Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934-1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7-53.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (redescription); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 (taxonomy).

***Acarodynerus legatus*** Giordani Soika, 1977

***Acarodynerus legatus*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 [127]. Type data: holotype, ZMB \*M. adult, from Marloo Station, Wurarga, W.A.

Distribution: SW coastal, NW coastal, W.A.; only published localities Marloo Station Wurarga and Wubin. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Acarodynerus lunaris*** Giordani Soika, 1977

***Acarodynerus lunaris*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 [127]. Type data: holotype, WAM adult not found, from Canning, W.A.

Distribution: (W plateau), (SW coastal), W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Acarodynerus paleovariatus*** Giordani Soika, 1962

***Acarodynerus paleovariatus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [162]. Type data: holotype, BMNH \*F. adult, from Champion Bay, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo

alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 (taxonomy).

***Acarodynerus posttegulatus*** (Giordani Soika, 1937)

***Odynerus (Stenodynerus) posttegulatus*** Giordani Soika, A. (1937). Description of three new *Stenodynerus* recently collected by R.E. Turner in W. Australia. *Ann. Mag. Nat. Hist.* (10) **20**: 356-360 [356]. Type data: lectotype, BMNH \*M. adult, from Dedari, W.A., designation by Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934-1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7-53.

Distribution: SW coastal, W plateau, W.A.; only published localities Dedari, Southern Cross and Salmon Gums. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (redescription); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 (description of female).

***Acarodynerus propodalaris*** Giordani Soika, 1962

***Acarodynerus propodalaris*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [165]. Type data: holotype, BMNH \*F. adult, from Dedari, W.A.

Distribution: W plateau, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Acarodynerus quadrangulum*** Giordani Soika, 1977

***Acarodynerus quadrangulum*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 [126]. Type data: holotype, NMV \*F. adult, from Caldwell, N.S.W.

Distribution: Murray-Darling basin, N.S.W., (Vic.); only published localities Caldwell and Kangaroo". Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Acarodynerus queenslandicus*** Giordani Soika, 1962

***Acarodynerus queenslandicus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [156]. Type data: holotype, BMNH \*F. adult, from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay, Townsville and Claudie River. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 (description of male).

***Acarodynerus spargovillensis*** (Giordani Soika, 1937)

***Odynerus (Stenodynerus) spargovillensis*** Giordani Soika, A. (1937). Description of three new *Stenodynerus* recently collected by R.E. Turner in W. Australia. *Ann. Mag. Nat. Hist.* (10) **20**: 356-360 [359]. Type data: lectotype, BMNH \*M. adult, from Spargoville (28 mi W of Coolgardie), W.A., designation by Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934-1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7-53.

Distribution: W plateau, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (generic placement, redescription); Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934-1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7-53 (locality); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 (taxonomy).

***Acarodynerus spectrum*** Giordani Soika, 1962

***Acarodynerus spectrum*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [155]. Type data: holotype, ZMB \*F. adult, from Carshalton, W.A. (this locality could not be found in the gazetteer; the collector, E. Clement, did collect in the Sherlock River area, W.A.).

Distribution: (NW coastal), W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Acarodynerus triangulum*** (Saussure, 1855)

***Odynerus triangulum*** Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i-xvi (1854-1856) [285 pl xiv fig 8]. Type data: syntypes (probable), M. adult whereabouts unknown, from Australia.

Distribution: NE coastal, SE coastal, Qld., N.S.W.; only published localities Brisbane and Hornsby. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (redescription, distribution).

***Acarozumia*** Bequaert, 1921

***Acarozumia*** Bequaert, J. (1921). Description d'une espèce congolaise du genre *Montezumia* (Hyménoptères, Vespides) suivie de remarques taxonomiques sur ce groupe. *Rev. Zool. Bot. Afr.* **9**: 235-251 [249] [proposed with subgeneric rank in *Montezumia* Saussure, 1852]. Type species *Nortonia amaliae* Saussure, 1869 by monotypy and original designation.

***Acarozumia amaliae*** (Saussure, 1869)

***Nortonia amaliae*** Saussure, H. de (1869). Hyménoptères divers du Musée Godeffroy. *Stettin. Entomol. Ztg.* **30**: 53-64 [53]. Type data: holotype, MGH \*M. adult, from Rockhampton, Qld.

***Montezumia australensis*** Perkins, R.C.L. (1908). Some remarkable Australian Hymenoptera. *Proc. Hawaii. Entomol. Soc.* **2**: 27-35 [33]. Type data: holotype, BMNH (probable) \*adult, from middle Qld.

Taxonomic decision of Meade-Waldo, G. (1914). Notes on the Hymenoptera in the collection of the British Museum, with descriptions of new species. V. *Ann. Mag. Nat. Hist.* (8) **14**: 450-464 [461].

Distribution: NE coastal, Qld., N.S.W.; only published localities Rockhampton, Brisbane and N.S.W. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Schulthess-Rechberg, A. von (1904). Beiträge zur Kenntnis der *Nortonia*-Arten. *Z. Syst. Hymenopterol. Dipterol.* **4**: 270-283 (redescription); Bequaert, J. (1921). Description d'une espèce congolaise du genre *Montezumia* (Hyménoptères, Vespides) suivie de remarques taxonomiques sur ce groupe. *Rev. Zool. Bot. Afr.* **9**: 235-251 (taxonomy as *Montezumia (Acarozumia) amaliae*); Riek, E.F. in CSIRO (1970). *The Insects of Australia*. A textbook for students and research workers. Melbourne : Melbourne Univ. Press 1029 pp. (generic placement, symbiotic mites); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 (distribution as *Nortozumia amaliae*).

***Alastoroides*** Saussure, 1856

***Alastoroides*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i-xvi (1854-1856) [327] [proposed with subgeneric rank



in *Alastor* Lepeletier, 1841; placed on Official List of Generic Names in Zoology, see International Commission on Zoological Nomenclature (1970). Opinion 893. Eumenidae names of Saussure (Hymenoptera): grant of availability to certain names proposed for secondary divisions of genera. *Bull. Zool. Nomen.* **26**: 187–191]. Publication date established from Griffin, F.J. (1939). On the dates of publication of Saussure (H. de): *Études sur la famille des Vespides* 1–3, 1852–1858. *J. Soc. Bibliogr. Nat. Hist.* **1**: 211–212. Type species *Alastor clotho* Lepeletier, 1841 by subsequent designation, see Ashmead, W.H. (1902). Classification of the fossorial, predaceous and parasitic wasps, or the superfamily Vespoidea. *Can. Entomol.* **34**: 203–210.

***Paralastoroides*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris: Masson 352 pp. pls i–xvi (1854–1856) [328] [unavailable name; proposed for secondary division of *Alastoroides* Saussure, 1856; placed on Official Index of Rejected and Invalid Generic Names in Zoology, see International Commission on Zoological Nomenclature (1970). Opinion 893. Eumenidae names of Saussure (Hymenoptera): grant of availability to certain names proposed for secondary divisions of genera. *Bull. Zool. Nomen.* **26**: 187–191]. Publication date established from Griffin, F.J. (1939). On the dates of publication of Saussure (H. de): *Études sur la famille des Vespides* 1–3, 1852–1858. *J. Soc. Bibliogr. Nat. Hist.* **1**: 211–212. Type species *Alastor clotho* Lepeletier, 1841 by monotypy.

***Alastoroides clotho*** (Lepeletier, 1841)

***Alastor clotho*** Lepeletier, A.L.M. (1841). *Histoire Naturelle des Insectes. Hyménoptères*. Paris: Roret Vol. ii 680 pp. [668]. Type data: syntypes (probable), MNHP \*F. adult, from Australia (as New Holland).

Distribution: no locality specified. Ecology: larva - sedentary, predator: adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (taxonomy as *Paralastor clotho*); International Commission on Zoological Nomenclature (1970). Opinion 893. Eumenidae names of Saussure (Hymenoptera): grant of availability to certain names proposed for secondary divisions of genera. *Bull. Zool. Nomen.* **26**: 187–191 (placed on Official List of Specific Names).

***Allorhynchium*** van der Vecht, 1963

***Allorhynchium*** van der Vecht, J. (1963). Studies on Indo-Australian and east-Asiatic Eumenidae (Hymenoptera, Vespoidea). *Zool. Verh.* **60**: 1–116 [58]. Type species *Vespa argentata* Fabricius, 1804 by original designation.

This group is also found in the Oriental Region, see van der Vecht, J. (1963). Studies on Indo-Australian and east-Asiatic Eumenidae (Hymenoptera, Vespoidea). *Zool. Verh.* **60**: 1–116.

***Allorhynchium iridipenne*** (Smith, 1861)

***Rhynchium iridipenne*** Smith, F. (1861). Catalogue of hymenopterous insects collected by Mr. A.R. Wallace in the islands of Bachian, Kaisaa, Amboyna, Gilolo, and at Dory in New Guinea. *J. Proc. Linn. Soc. Lond. Zool.* **5**: 93–143 [128]. Type data: holotype, OUM \*F. adult, from Amboina (as Amboyna).

Distribution: N coastal, N.T.; only published locality Marrakai, also found in Amboina, Philippines, Celebes, India and Indochina. Ecology: larva - sedentary, predator: adult - volant; prey larval Lepidoptera. Biological references: Schulthess-Rechberg, A. von (1935). Hymenoptera aus den Sundainseln und Nordaustralien (mit Ausschluss der Blattwespen, Schlupfwespen und Ameisen). *Rev. Suisse Zool.* **42**: 293–323 (Australian record); van der Vecht, J. (1963). Studies on Indo-Australian and east-Asiatic Eumenidae (Hymenoptera, Vespoidea). *Zool. Verh.* **60**: 1–116 (generic placement); Baltazar, C.R. (1966). A catalogue of Philippine Hymenoptera (with a bibliography, 1758–1963). *Pac. Insects Monogr.* **8**: 1–488 (distribution).

***Ancistrocerus*** Wesmael, 1836

***Ancistrocerus*** Wesmael, C. (1836). Supplément à la Monographie des Odyneres. *Bull. Acad. Brux.* **3**: 44–54 [45] [proposed as subgenus of *Odynerus* Latreille, 1802]. Type species *Vespa parietum* Linnaeus, 1758 by subsequent designation, see Girard, M. (1879). *Traité élémentaire d'Entomologie*. Tom. ii Fasc. 2 Hyménoptères porte-aiguillon. pp. 577–1028 7 pls Paris: Baillière. Compiled from secondary source: van der Vecht, J. & Fischer, F.C.J. (1972). Palearctic Eumenidae. *Hymenopterorum Catalogus* **8**: 1–199.

This group is mainly Holarctic, also in Ethiopian and Neotropical Regions, see Richards, O.W. (1980). Scoliioidea, Vespoidea and Sphecoidea. Hymenoptera, Aculeata. *Handbk. Ident. Br. Insects* **6**(3b): 1–118.

***Ancistrocerus fluvialis*** (Saussure, 1855)

***Odynerus (Ancistrocerus) fluvialis*** Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris: Masson 352 pp. pls i–xvi (1854–1856) [215]. Type data: syntypes (probable), MZUT \*adult, from Swan River, W.A. (as New Holland).

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator: adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Antamenes* Giordani Soika, 1958**

Taxonomic decision of Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [185].

***Antamenes (Antamenes)* Giordani Soika, 1958**

***Antamenes*** Giordani Soika, A. (1958). Biogeografia, evoluzione e sistematica dei Vespidi solitari della Polinesia meridionale. *Boll. Mus. Civ. Stor. Nat. Venezia* **10**: 183–221 [214]. Type species *Odynerus flavocinctus* Smith, 1857 (= *Odynerus vernalis* Saussure, 1853) by original designation.

***Antamenes (Antamenes) pseudoneotropicus* (Giordani Soika, 1943)**

***Pachymenes pseudoneotropicus*** Giordani Soika, A. (1943). Le specie indo-australiane del genere *Pachymenes* (Hym. Vespidae). *Mem. Soc. Entomol. Ital.* **22**: 102–117 [113]. Type data: lectotype, A. Giordani Soika pers. coll. \*M. adult, from N.S.W., designation by Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934–1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7–53.

Distribution: N.S.W.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (generic placement, redescription); Giordani Soika, A. (1974). Prime ricerche sugli Eumenidi ipsobionti. I. Caratteristiche generali degli Eumenidi ipsobionti del globo. *Redia* **55**: 287–302 (colouration).

***Antamenes (Antamenes) tasmaniae* (Giordani Soika, 1943)**

***Pachymenes tasmaniae*** Giordani Soika, A. (1943). Le specie indo-australiane del genere *Pachymenes* (Hym. Vespidae). *Mem. Soc. Entomol. Ital.* **22**: 102–117 [113]. Type data: lectotype, A. Giordani Soika pers. coll. \*M. adult, from Tas., designation by Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934–1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7–53.

Distribution: NE coastal, Qld., Tas.; only published localities Mackay and Tas. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (generic placement, redescription); Giordani Soika, A. (1974). Prime ricerche sugli Eumenidi ipsobionti. I. Caratteristiche generali degli Eumenidi ipsobionti del globo. *Redia* **55**: 287–302 (colouration).

***Antamenes (Antamenes) vernalis* (Saussure, 1853)**

***Odynerus (Ancistrocerus) vernalis*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [148]. Type data: syntypes (probable), MNHP \*F. adult, from Tas.

***Odynerus flavocinctus*** Smith, F. (1857). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Pt. V. Vespidae pp. 1–147 London : British Museum [64]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

***Odynerus (Leionotus) bisulcatus*** Cameron, P. (1906). Description of a new species of *Odynerus (Leionotus)* from Australia. *Entomologist* **39**: 78–79 [78]. Type data: syntypes probable, adult whereabouts unknown, from Australia.

***Pachymenes rectispina*** Giordani Soika, A. (1943). Le specie indo-australiane del genere *Pachymenes* (Hym. Vespidae). *Mem. Soc. Entomol. Ital.* **22**: 102–117 [112]. Type data: holotype, A. Giordani Soika pers. coll. \*M. adult, from Vic.

Taxonomic decision of Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [188].

Distribution: NE coastal, Murray-Darling basin, SE coastal, S Gulfs, Qld., N.S.W., Vic., Tas., S.A. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (distribution).

***Antamenes (Antamenes) vorticosus* (Giordani Soika, 1943)**

***Pachymenes vorticosus*** Giordani Soika, A. (1943). Le specie indo-australiane del genere *Pachymenes* (Hym. Vespidae). *Mem. Soc. Entomol. Ital.* **22**: 102–117 [110]. Type data: lectotype, A. Giordani Soika pers. coll. \*adult, from Emerald, Vic., designation by Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934–1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7–53.

Distribution: SE coastal, N.S.W., Vic. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (generic placement, redescription); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (distribution).

***Antamenes (Australochilus)*** Giordani Soika, 1962

***Australochilus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [184] [proposed with subgeneric rank in *Antamenes* Giordani Soika, 1958]. Type species *Odynerus citreocinctus* Saussure, 1867 by subsequent designation, see Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934–1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7–53.

***Antamenes (Australochilus) amicus*** (Giordani Soika, 1943)

***Pachymenes amicus*** Giordani Soika, A. (1943). Le specie indo-australiane del genere *Pachymenes* (Hym. Vespidae). *Mem. Soc. Entomol. Ital.* **22**: 102–117 [114]. Type data: lectotype, BMNH \*M. adult, from Mackay, Qld., designation by Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934–1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7–53.

Distribution: NE coastal, Qld.; only published localities Mackay and Kuranda. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (redescription).

***Antamenes (Australochilus) citreocinctus*** (Saussure, 1867)

***Odynerus (Leionotus) citreocinctus*** Saussure, H. de (1867). Hymenoptera. in, *Reise der österreichischen Fregatte Novara um die Erde in den Jahren 1857, 1858, 1859 unter den Befehlen des Commodore B. von Wüllerstorff-Urbair*. Zoologischer Theil. Wien : K-K Hof- und Staatsdruckerei Vol. 2(1a) 138 pp. [10 pl I fig 5]. Type data: syntypes (probable), MNHP (probable) \*adult, from Sydney, N.S.W.

Distribution: NE coastal, SE coastal, Qld., N.S.W.; only published localities Stradbroke Is. and Sydney. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1943). Le specie indo-australiane del genere *Pachymenes* (Hym. Vespidae). *Mem. Soc. Entomol. Ital.* **22**: 102–117 (redescription as *Pachymenes citreocinctus*); Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (generic placement, redescription).

***Antamenes (Australochilus) ferrugineus*** Giordani Soika, 1977

***Antamenes (Australochilus) ferrugineus*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi

australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [133]. Type data: holotype, BMNH \*F. adult, from Port Darwin, N.T.

Distribution: N coastal, N.T.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Antamenes (Australochilus) flavoniger*** Giordani Soika, 1977

***Antamenes (Australochilus) flavoniger*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [132]. Type data: holotype, BMNH \*adult, from Herbert, Qld. (presumably Herbert River or Herberton is meant).

Distribution: NE coastal, Qld.; only published localities Herbert and Cairns. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Antamenes (Australochilus) hackeri*** Giordani Soika, 1962

***Antamenes (Australochilus) hackeri*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [198]. Type data: holotype, QM T8538 \*adult, from Brisbane, Qld.

Distribution: NE coastal, Qld.; only published localities Brisbane and Stradbroke Is. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Antamenes (Australochilus) hostilis*** Giordani Soika, 1962

***Antamenes (Australochilus) hostilis*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [195]. Type data: holotype, QM T5983 \*F. adult, from Brisbane, Qld.

Distribution: NE coastal, Qld.; only published localities Brisbane and Burleigh. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (description of male).

***Antamenes (Australochilus) jugulatus*** Giordani Soika, 1977

***Antamenes (Australochilus) jugulatus*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [131]. Type data: holotype, NMV \*M. adult, from Melton, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.



***Australodynerus* Giordani Soika, 1962**

***Australodynerus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [114]. Type species *Odynerus pusillus* Saussure, 1855 by original designation.

***Australodynerus convexus* Giordani Soika, 1977**

***Australodynerus convexus*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [119]. Type data: holotype, USNM \*adult, from Brisbane, Qld.

Distribution: NE coastal, Qld.; only published localities Brisbane and Burleigh. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Australodynerus merredinensis* Giordani Soika, 1962**

Taxonomic decision of Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [119].

***Australodynerus merredinensis merredinensis* Giordani Soika, 1962**

***Australodynerus merredinensis*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [122]. Type data: holotype, BMNH \*F. adult, from Merredin, W.A.

Distribution: SW coastal, W plateau, NW coastal, W.A.; only published localities Merredin, Marloo Station and Dedari. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Australodynerus merredinensis everardensis* Giordani Soika, 1977**

***Australodynerus merredinensis everardensis*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [119]. Type data: holotype, SAMA \*F. adult, from Everard Park Station near Victory Well, S.A.

Distribution: Lake Eyre basin, S.A.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Australodynerus merredinensis victoriensis* Giordani Soika, 1977**

***Australodynerus merredinensis victoriensis*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [120]. Type data: holotype, NMV \*M. adult, from Purnong, S.A. (as Pomong, Vic.); Mr. K. Walker checked the label data on the holotype.

Distribution: Murray-Darling basin, Vic., S.A.; only published localities Purnong, Mooroopna and Mallee. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Australodynerus punctiventris* Giordani Soika, 1977**

***Australodynerus punctiventris*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [120]. Type data: holotype, NMV \*F. adult, from Caldwell, N.S.W.

Distribution: Murray-Darling basin, N.S.W.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Australodynerus pusilloides* Giordani Soika, 1962**

Taxonomic decision of Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [119].

***Australodynerus pusilloides pusilloides* Giordani Soika, 1962**

***Australodynerus pusilloides*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [119]. Type data: holotype, BMNH \*F. adult, from Yanchep, W.A.

Distribution: SW coastal, NW coastal, W.A.; only published localities Yanchep, Dongarra, Maya, Merredin and Midland. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (distribution).

***Australodynerus pusilloides impudicus* Giordani Soika, 1962**

***Australodynerus pusilloides impudicus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [120]. Type data: holotype, BMNH \*F. adult, from Yallingup, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (taxonomy).

***Australodynerus pusillus* (Saussure, 1855)**

***Odynerus pusillus*** Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls

i-xvi (1854-1856) [287]. Type data: syntypes (probable), F. adult whereabouts unknown, from Australia (as New Holland).

***Odynerus (Leionotus) macilentus*** Saussure, H. de (1867). Hymenoptera. in, *Reise der österreichischen Fregatte Novara um die Erde in den Jahren 1857, 1858, 1859 unter den Befehlen des Commodore B. von Wüllerstorff-Urbair*. Zoologischer Theil. Wien : K-K Hof- und Staatsdruckerei Vol. 2(1a) 138 pp. [16 pl I fig 10]. Type data: syntypes (probable), BMNH \*adult, from Sydney, N.S.W.

Taxonomic decision of Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [116].

Distribution: SE coastal, S Gulfs, N.S.W., Vic., S.A.; only published localities Sydney, Kewell and Adelaide. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934-1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7-53 (taxonomy); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 (distribution).

#### ***Australozethus* Giordani Soika, 1969**

***Australozethus*** Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25-100 [29]. Type species *Australozethus tasmaniensis* Giordani Soika, 1969 by original designation.

#### ***Australozethus continentalis* Giordani Soika, 1969**

***Australozethus continentalis*** Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25-100 [36]. Type data: holotype, AM K60161 F. adult, from Barrington Tops, N.S.W.

Distribution: SE coastal, N.S.W.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

#### ***Australozethus occidentalis* Giordani Soika, 1969**

***Australozethus occidentalis*** Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25-100 [37]. Type data: holotype, QM T7235 \*F. adult, from Mundaring, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

#### ***Australozethus tasmaniensis* Giordani Soika, 1969**

Taxonomic decision of Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25-100 [35].

#### ***Australozethus tasmaniensis tasmaniensis***

Giordani Soika, 1969

***Australozethus tasmaniensis*** Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25-100 [31]. Type data: holotype, BMNH \*F. adult, from Eaglehawk Neck, Tas.

Distribution: Murray-Darling basin, Vic., Tas.; only published localities Mt. Buffalo, Eaglehawk Neck, Hobart and Launceston. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1974). Prime ricerche sugli Eumenidi ipsobionti. I. Caratteristiche generali degli Eumenidi ipsobionti del globo. *Redia* **55**: 287-302 (colouration).

#### ***Australozethus tasmaniensis montanus* Giordani Soika, 1969**

***Pseudozethus tasmaniensis montanus*** Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25-100 [35] [*Pseudozethus* was printed in error for *Australozethus*]. Type data: holotype, AM F. adult, from Bunya Mts., Qld.

Distribution: NE coastal, Qld.; only published localities Bunya Mts. and Mt. Glorious. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

#### ***Bidentodynerus* Giordani Soika, 1977**

***Bidentodynerus*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 [117]. Type species '*Odynerus bicolor* Saussure, 1855 by original designation.

#### ***Bidentodynerus bicolor* (Saussure, 1855)**

Taxonomic decision of Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [89].

#### ***Bidentodynerus bicolor bicolor* (Saussure, 1855)**

***Odynerus bicolor*** Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i-xvi (1854-1856) [284]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from MacIntyre River, N.S.W.

Distribution: NE coastal, Murray-Darling basin, SE coastal, N Gulf, N coastal, Qld., N.S.W., Vic., W.A., N.T. Ecology: larva - sedentary, predator : adult - volant; nest in abandoned mud-nests of *Sceliphron laetum* Smith, prey larval Lepidoptera (Pyralidae). Biological references: Roth, H.L. (1885). Notes on the habits of some Australian Hymenoptera Aculeata. (With description of a new species by W.F. Kirby). *J. Linn. Soc. Zool.* **18**:

318–328 (biology as *Odynerus bicolor*); Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130–279 (taxonomy as *Odynerus (Rhynchium) bicolor*); Smith, A. (1972). The Michelangelo of mud wasps. *Animals* **14**: 496–497 (nest, biology as *Pseudepipona bicolor*); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (generic placement, distribution); Naumann, I.D. (1983). The biology of mud nesting Hymenoptera (and their associates) and Isoptera in rock shelters of the Kakadu Region, Northern Territory. *Aust. Natl. Parks & Wildlf. Ser. Spec. Publ.* **10** pp. 127–189 (biology as *Odynerus bicolor*).

***Bidentodynerus bicolor aurantiopicta*** (Giordani Soika, 1941)

***Odynerus (Rhynchium) bicolor aurantiopictus*** Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130–279 [258] [described as variety]. Type data: lectotype, A. Giordani Soika pers. coll. \*F. adult, from Australia, designation by Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934–1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7–53.

Distribution: W plateau, N coastal, W.A., N.T.; only published localities Meekatharra, Billiluna and Darwin. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Bidentodynerus bicolor flavescensculus*** (Giordani Soika, 1941)

***Odynerus (Rhynchium) bicolor flavescensculus*** Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130–279 [258] [described as variety]. Type data: lectotype, BMNH \*M. adult, from Alexandria, N.T., designation by Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934–1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7–53.

Distribution: N Gulf, W plateau, W.A., N.T.; only published localities Meekatharra and Alexandria. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Bidentodynerus bicolor nigrocinctoides*** (Giordani Soika, 1941)

***Odynerus (Rhynchium) bicolor nigrocinctoides*** Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130–279 [258] [described as variety]. Type data: lectotype, BMNH \*F. adult, from Kalamunda, W.A., designation by Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934–1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7–53. from Kalamunda, W.A.

Distribution: SW coastal, NW coastal, Lake Eyre basin, W plateau, W.A., N.T. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (generic placement, distribution).

### ***Delta*** Saussure, 1855

***Delta*** Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [130,132,143] [proposed as a subgenus of *Eumenes* Latreille, 1802]. Publication date established from Griffin, F.J. (1939). On the dates of publication of Saussure (H. de) : *Études sur la famille des Vespides* 1–3, 1852–1858. *J. Soc. Bibliogr. Nat. Hist.* **1**: 211–212. Type species *Vespa maxillosa* DeGeer, 1775 (= *Vespa emarginata* Linnaeus, 1758) by subsequent designation, see Bequaert, J. (1926). The genus *Eumenes* Latreille, in South Africa, with a revision of the Ethiopian species (Hymenoptera). *Ann. S. Afr. Mus.* **23**: 483–577. Compiled from secondary source: van der Vecht, J. & Fischer, F.C.J. (1972). Palearctic Eumenidae. *Hymenopterorum Catalogus* **8**: 1–199.

This group is also found in the Palaearctic, Ethiopian, Neotropical and Oriental Regions, see Giordani Soika, A. (1961). Les lignées philétiques des *Eumenes* s.l. du globe (Hym. Vesp.). *Trans. 11th Int. Congr. Entomol.* (Vienna, 1960) **1**: 240–245.

### ***Delta arcuata*** (Fabricius, 1775)

Taxonomic decision of van der Vecht, J. (1959). On *Eumenes arcuatus* (Fabricius) and some allied Indo-Australian wasps (Hymenoptera, Vespidae). *Zool. Verh.* **41**: 1–71 [52].

### ***Delta arcuata arcuata*** (Fabricius, 1775)

***Vespa arcuata*** Fabricius, J.C. (1775). *Systema Entomologiae*, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus. Flensburgi et Lipsiae : Kortii xxvii 832 pp. [371]. Type data: holotype, BMNH \*F. adult, from Australia (as New Holland).

Distribution: NE coastal, N coastal, Qld., W.A.; also in New Guinea, D'Entrecasteaux Is., Trobriand Is., Aru Is. and Taiwan. Ecology: larva - sedentary, predator : adult - volent; (mud-nest), (prey larval Lepidoptera). Biological references: van der Vecht, J. (1960). On *Abispa* and some other Eumenidae from the Australian region (Hymenoptera, Vespoidea). *Nova Guinea Zool.* **6**: 91–115 (distribution); Giordani Soika, A. (1961). Les lignées philétiques des *Eumenes* s.l. du globe (Hym. Vesp.). *Trans. 11th Int. Congr. Entomol.* (Vienna, 1960) **1**: 240–245 (taxonomy as *Delta*



*arcuata*); van der Vecht, J. (1961). Evolution in a group of Indo-Australian *Eumenes* (Hymenoptera, Eumenidae). *Evolution* **15**: 468–477 (evolution).

***Delta bicinctus*** (Saussure, 1852)

*Eumenes bicincta* Saussure, H. de (1852). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [44]. Type data: syntypes (probable), GMNH \*adult, from Australia (as New Holland).

Distribution: NE coastal, Murray-Darling basin, SE coastal, Lake Eyre basin, SW coastal, NW coastal, N coastal, W plateau, Qld., N.S.W., Vic., S.A., W.A., N.T. Ecology: larva - sedentary, predator : adult - volant; mud-nest, prey larval Lepidoptera. Biological references: Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130–279 (distribution as *Eumenes (Delta) bicinctus*); James, C.T. (1956). Some nesting habits of *Eumenes bicincta*. *S. Aust. Nat.* **31**: 24 (nest); Giordani Soika, A. (1961). Les lignées philétiques des *Eumenes* s.l. du globe (Hym. Vesp.). *Trans. 11th Int. Congr. Entomol.* (Vienna, 1960) **1**: 240–245 (taxonomy as *Delta bicinctus*); Callan, E.M. (1981). Further records of *Macrosiagon* (Coleoptera : Rhipiphoridae) reared from eumenid and sphecid wasps in Australia. *Aust. Entomol. Mag.* **7**: 81–83 (host, as *Eumenes bicinctus*).

***Delta campaniformis*** (Fabricius, 1775)

Taxonomic decision of Giordani Soika, A. (1934). *Labus* ed *Eumenes* nuovi o poco noti (Hym. Vespidae). *Mem. Soc. Entomol. Ital.* **12**: 215–228 [224].

***Delta campaniformis campaniformis*** (Fabricius, 1775)

*Vespa campaniformis* Fabricius, J.C. (1775). *Systema Entomologiae*, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus. Flensburgi et Lipsiae : Kortii xxvii 832 pp. [371]. Type data: holotype, BMNH \*F. adult, from Australia (as New Holland).

Distribution: NE coastal, N coastal, NW coastal, Qld., W.A.; also in New Guinea, Philippines, Java and Yule Is. Ecology: larva - sedentary, predator : adult - volant; mud-nest, prey larval Lepidoptera. Biological references: Giordani Soika, A. (1961). Les lignées philétiques des *Eumenes* s.l. du globe (Hym. Vesp.). *Trans. 11th Int. Congr. Entomol.* (Vienna, 1960) **1**: 240–245 (taxonomy, generic placement); Baltazar, C.R. (1966). A catalogue of Philippine Hymenoptera (with a bibliography, 1758–1963). *Pac. Insects Monogr.* **8**: 1–488 (distribution); Anderson, D.L., Sedgley, M., Short,

J.R.T. & Allwood, A.J. (1982). Insect pollination of mango in Northern Australia. *Aust. J. Agric. Res.* **33**: 541–548 (as pollinator).

***Delta campaniformis assatus*** (Giordani Soika, 1934)

*Eumenes campaniformis assatus* Giordani Soika, A. (1934). *Labus* ed *Eumenes* nuovi o poco noti (Hym. Vespidae). *Mem. Soc. Entomol. Ital.* **12**: 215–228 [224] [described as variety]. Type data: lectotype, A. Giordani Soika pers. coll. \*F. adult, from Qld., designation by Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934–1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7–53.

Distribution: Qld.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; mud-nest, prey larval Lepidoptera.

***Delta incola*** (Giordani Soika, 1935)

Taxonomic decision of van der Vecht, J. (1959). On *Eumenes arcuatus* (Fabricius) and some allied Indo-Australian wasps (Hymenoptera, Vespidae). *Zool. Verh.* **41**: 1–71 [28].

***Delta incola aruensis*** (Giordani Soika, 1935)

*Eumenes (Delta) incola aruensis* Giordani Soika, A. (1935). Ricerche sistematiche sugli *Eumenes* e *Pareumenes* dell'Archipelago Malese e della Nuova Guinea. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **57**: 114–151 [137] [described as variety]. Type data: lectotype, MCG \*F. adult, from Wokan, Aru, designation by Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934–1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7–53.

Distribution: NE coastal, Qld.; only published localities Mackay and Cairns, also Aru IIs. Ecology: larva - sedentary, predator : adult - volant; mud-nest, prey larval Lepidoptera. Biological references: Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130–279 (distribution).

***Delta incola teleporus*** (van der Vecht, 1959)

*Eumenes incola teleporus* van der Vecht, J. (1959). On *Eumenes arcuatus* (Fabricius) and some allied Indo-Australian wasps (Hymenoptera, Vespidae). *Zool. Verh.* **41**: 1–71 [30]. Type data: holotype, BMNH \*F. adult, from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay, Cairns and Kuranda. Ecology: larva - sedentary, predator : adult - volant; mud-nest, prey larval Lepidoptera.

***Delta latreillei* (Saussure, 1852)**

Taxonomic decision of van der Vecht, J. (1960). On *Abispa* and some other Eumenidae from the Australian region (Hymenoptera, Vespidae). *Nova Guinea Zool.* **6**: 91–115 [111].

***Delta latreillei latreillei* (Saussure, 1852)**

***Eumenes latreillei*** Saussure, H. de (1852). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [51 pl x figs 5a–b]. Type data: holotype, MCG \*F. adult, from Australia (as New Holland).

Distribution: NE coastal, Lake Eyre basin, SE coastal, N coastal, Qld., Vic., W.A., N.T.; also in New Guinea. Ecology: larva - sedentary, predator : adult - volant; mud-nest, prey larval Lepidoptera. Biological references: Roth, H.L. (1885). Notes on the habits of some Australian Hymenoptera Aculeata. (With description of a new species by W.F. Kirby). *J. Linn. Soc. Zool.* **18**: 318–328 (biology); Girault, A.A. (1914). Observations on an Australian mud dauber which uses in part its own saliva in nest construction. *Z. Wiss. Insektbiol.* **10**: 28–32 (biology); Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130–279 (taxonomy as *Eumenes (Delta) pyriformis* var. *latreillei*); Donnell, F.O. (1944). Cell-building by a mason wasp. *Vict. Nat.* **61**: 67–68 (biology); Giordani Soika, A. (1958). Biogeografia, evoluzione e sistematica dei Vespidi solitari della Polinesia meridionale. *Boll. Mus. Civ. Stor. Nat. Venezia* **10**: 183–221 (taxonomy, distribution); Giordani Soika, A. (1961). Les lignées philétiques des *Eumenes* s.l. du globe (Hym. Vesp.). *Trans. 11th Int. Congr. Entomol.* (Vienna, 1960) **1**: 240–245 (taxonomy, generic placement); Callan, E.M. (1981). Further records of *Macrosiagon* (Coleoptera : Rhipiphoridae) reared from eumenid and sphecid wasps in Australia. *Aust. Entomol. Mag.* **7**: 81–83 (as host).

***Delta nigratarsis* (Meade-Waldo, 1910)**

***Eumenes nigratarsis*** Meade-Waldo, G. (1910). New species of Diploptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (8) **5**: 30–51 [43]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Darwin, N.T.

Distribution: N coastal, N.T.; type locality only. Ecology: larva - sedentary, predator : adult - volant; mud-nest, prey larval Lepidoptera. Biological references: Bequaert, J.C. (1928). A study of certain types of diplopterous wasps in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (10) **2**: 138–176 (taxonomy as *Eumenes*

(*Delta*) *pyriformis* var. *nigratarsis*); Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130–279 (taxonomy as *Eumenes (Delta) pyriformis* var. *nigratarsis*).

***Delta philantes* (Saussure, 1852)**

***Eumenes philantes*** Saussure, H. de (1852). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [54]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

Distribution: NE coastal, N coastal, Lake Eyre basin, Qld., W.A., S.A.; only published localities Cairns, Ord River and Killalpanima. Ecology: larva - sedentary, predator : adult - volant; mud-nest, prey larval Lepidoptera. Biological references: Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130–279 (taxonomy as *Eumenes (Delta) philantes*); Giordani Soika, A. (1958). Biogeografia, evoluzione e sistematica dei Vespidi solitari della Polinesia meridionale. *Boll. Mus. Civ. Stor. Nat. Venezia* **10**: 183–221 (taxonomy); Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934–1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7–53 (taxonomy).

***Delta transmarinum* (van der Vecht, 1959)**

***Eumenes transmarinus*** van der Vecht, J. (1959). On *Eumenes arcuatus* (Fabricius) and some allied Indo-Australian wasps (Hymenoptera, Vespidae). *Zool. Verh.* **41**: 1–71 [71]. Type data: holotype, BMNH \*F. adult, from De Freycinet Is., W.A.

Distribution: N coastal, W.A.; only published localities De Freycinet Is. and in Kimberley area. Ecology: larva - sedentary, predator : adult - volant; mud-nest, prey larval Lepidoptera. Biological references: van der Vecht, J. (1981). Indo-Australian solitary wasps. *Proc. K. Ned. Akad. Wet. (c)* **84**: 443–464 (taxonomy, distribution).

***Delta xanthurum* (Saussure, 1852)**

Taxonomic decision of Giordani Soika, A. (1958). Biogeografia, evoluzione e sistematica dei Vespidi solitari della Polinesia meridionale. *Boll. Mus. Civ. Stor. Nat. Venezia* **10**: 183–221 [201].

***Delta xanthurum xanthurum* (Saussure, 1852)**

***Eumenes xanthura*** Saussure, H. de (1852). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au

Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i-xx (1852-1853) [46 pl x fig 4]. Type data: holotype, MNHP \*F. adult, from East Indies (as Indies or.).

Distribution: NE coastal, Qld.; only published localities Murray Is., also Loyalty Is., India, Indo-China, Malay Archipelago, New Caledonia and New Hebrides. Ecology: larva - sedentary, predator : adult - volant; mud-nest, prey larval Lepidoptera. Biological references: Giordani Soika, A. (1974). Prime ricerche sugli Eumenidi ipsobionti. I. Caratteristiche generali degli Eumenidi ipsobionti del globo. *Redia* **55**: 287-302 (generic placement, Australian record).

***Diemodynerus* Giordani Soika, 1962**

***Diemodynerus* Giordani Soika, A. (1962).** Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [141]. Type species *Odynerus diemensis* Saussure, 1853 by original designation.

***Diemodynerus decipiens* (Saussure, 1867)**

Taxonomic decision of Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 [125].

***Diemodynerus decipiens decipiens* (Saussure, 1867)**

***Odynerus (Leionotus) decipiens* Saussure, H. de (1867).** Hymenoptera. in, *Reise der österreichischen Fregatte Novara um die Erde in den Jahren 1857, 1858, 1859 unter den Befehlen des Commodore B. von Wüllerstorff-Urbair*. Zoologischer Theil. Wien : K-K Hof- und Staatsdruckerei Vol. 2(1a) 138 pp. [11 pl I fig 6]. Type data: syntypes (probable), NHMW \*F adult, from Sydney, N.S.W.

Distribution: SE coastal, Murray-Darling basin, S Gulfs, N.S.W., Vic., S.A. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130-279 (description of male as *Odynerus (Rhynchium) decipiens*); Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (redescription, generic placement); Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934-1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7-53 (taxonomy).

***Diemodynerus decipiens positus* Giordani Soika, 1977**

***Diemodynerus decipiens positus* Giordani Soika, A. (1977).** Contributo alla conoscenza degli Eumenidi

australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 [125]. Type data: holotype, NMV \*M. adult not found, from Port Lincoln, S.A.

Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Diemodynerus diemensis* (Saussure, 1853)**

***Odynerus (Leionotus) diemensis* Saussure, H. de (1853).** *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i-xx (1852-1853) [201]. Type data: holotype, MNHP \*F. adult, from Tas.

Distribution: NE coastal, SE coastal, Qld., N.S.W., Tas.; only published localities Brisbane, Sydney and Tas. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (generic placement).

***Diemodynerus pseudacarodynerus* Giordani Soika, 1962**

***Diemodynerus pseudacarodynerus* Giordani Soika, A. (1962).** Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [142]. Type data: holotype, AM K68217 F. adult, from King George Sound, W.A.

Distribution: SW coastal, W.A.; only published localities King George Sound, Bunbury and Gnowangerup (as Ghovargi). Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 (description of male).

***Diemodynerus saucius* (Saussure, 1856)**

***Odynerus saucius* Saussure, H. de (1856).** *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Euméniens. Paris : Masson 352 pp. pls i-xvi (1854-1856) [280]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

Distribution: NE coastal, SE coastal, Murray-Darling basin, S Gulfs, Qld., N.S.W., Vic., S.A. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (redescription, generic placement); Giordani Soika, A. (1977). Contributo



alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (distribution).

***Ectopioglossa* Perkins, 1912**

***Ectopioglossa*** Perkins, R.C.L. (1912). Notes, with descriptions of new species, on aculeate Hymenoptera of the Australian Region. *Ann. Mag. Nat. Hist.* (8) **9**: 96–121 [118]. Type species *Ectopioglossa australensis* Perkins, 1912 (= *Eumenes australensis* Meade-Waldo, 1910) by monotypy.

This group is also found in the Oriental Region, see van der Vecht, J. (1963). Studies on Indo-Australian and east-Asiatic Eumenidae (Hymenoptera, Vespoidea). *Zool. Verh.* **60**: 1–116.

***Ectopioglossa polita* (Smith, 1861)**

Taxonomic decision of van der Vecht, J. (1981). Indo-Australian solitary wasps. *Proc. K. Ned. Akad. Wet.* (c) **84**: 443–464 [456].

***Ectopioglossa polita australensis*** (Meade-Waldo, 1910)

***Eumenes (Pareumenes) australensis*** Meade-Waldo, G. (1910). New species of Diploptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (8) **5**: 30–51 [44]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

***Ectopioglossa australensis*** Perkins, R.C.L. (1912). Notes, with descriptions of new species, on aculeate Hymenoptera of the Australian Region. *Ann. Mag. Nat. Hist.* (8) **9**: 96–121 [119]. Type data: holotype, BMNH \*adult, from Cairns, Qld.

Distribution: NE coastal, Qld.; only published localities Kuranda and Cairns. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Meade-Waldo, G. (1914). Notes on the Hymenoptera in the collection of the British Museum, with descriptions of new species. V. *Ann. Mag. Nat. Hist.* (8) **14**: 450–464 (redescription as *Pareumenes australensis*); van der Vecht, J. (1963). Studies on Indo-Australian and east-Asiatic Eumenidae (Hymenoptera, Vespoidea). *Zool. Verh.* **60**: 1–116 (taxonomy).

***Elimus* Saussure, 1852**

***Elimus*** Saussure, H. de (1852). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [7]. Publication date established from Griffin, F.J. (1939). On the dates of publication of Saussure (H. de) : *Études sur la famille des Vespides* 1–3, 1852–1858. *J. Soc. Bibliogr. Nat. Hist.* **1**: 211–212. Type species *Elimus australis* Saussure, 1852 by monotypy.

***Elimus australis* Saussure, 1852**

***Elimus australis*** Saussure, H. de (1852). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [8 pl iii fig 1a–c]. Type data: holotype, MNHP \*M. adult, from S.A.

Distribution: NE coastal, SE coastal, Qld., N.S.W., S.A.; only published localities Stradbroke Is., Sydney and S.A. (New Guinea record is considered doubtful). Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 (redescription).

***Elimus mackayensis* Meade-Waldo, 1910**

***Elimus mackayensis*** Meade-Waldo, G. (1910). New species of Diploptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (8) **5**: 30–51 [39]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay and Brisbane. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Bequaert, J.C. (1928). A study of certain types of diplopterous wasps in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (10) **2**: 138–176 (taxonomy); Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 (redescription).

***Epidynerus* Giordani Soika, 1958**

***Epidynerus*** Giordani Soika, A. (1958). Biogeografia, evoluzione e sistematica dei Vespidi solitari della Polinesia meridionale. *Boll. Mus. Civ. Stor. Nat. Venezia* **10**: 183–221 [195] [proposed with subgeneric rank in *Pseudepipona* Saussure, 1856]. Type species *Odynerus alecto* Lepeletier, 1841 by original designation.

This group is also found in the Oriental Region and Pacific islands, see van der Vecht, J. (1963). Studies on Indo-Australian and east-Asiatic Eumenidae (Hymenoptera, Vespoidea). *Zool. Verh.* **60**: 1–116.

***Epidynerus decoratus* (Saussure, 1855)**

***Rhynchium decoratum*** Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Euméniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [180 pl ix fig 6]. Type data: holotype, MNHP \*F. adult, from Australia (as New Holland).

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (redescription as *Pseudepipona (Epidodynerus) decorata*).

***Epidodynerus nigrocinctus* (Saussure, 1853)**

Taxonomic decision of van der Vecht, J. (1963). Studies on Indo-Australian and east-Asiatic Eumenidae (Hymenoptera, Vespoidea). *Zool. Verh.* **60**: 1-116 [93].

***Epidodynerus nigrocinctus nigrocinctus* (Saussure, 1853)**

***Odynerus (Leionotus) nigrocinctus*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i-xx (1852-1853) [201]. Type data: holotype, MNHP \*M. adult, from Tas.

Distribution: NE coastal, Murray-Darling basin, Lake Eyre basin, SW coastal, N coastal, NW coastal, Qld., N.S.W., Vic., W.A., N.T., Tas.; also in New Guinea and Solomon IIs. (probably introduced). Ecology: larva - sedentary, predator : adult - volant; nest in hole in mud brick wall, prey larval Lepidoptera. Biological references: Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130-279 (redescription as *Odynerus (Rhynchium) nigrocinctus*); Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (redescription, distribution, as *Pseudepipona (Epidodynerus) nigrocinctus*); McKenzie, J. (1975). Studies of the behaviour of some insects nesting in a mud brick wall. *Qd. Nat.* **21**: 63-64 (biology as *Pseudepipona nigrocincta*); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 (distribution); Wilson, A.G.L. & Greenup, L.R. (1977). The relative injuriousness of insect pests of cotton in the Namoi Valley, New South Wales. *Aust. J. Ecol.* **2**: 319-328 (prey).

***Epidodynerus tamarinus* (Saussure, 1853)**

Taxonomic decision of Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 [118].

***Epidodynerus tamarinus tamarinus* (Saussure, 1853)**

***Odynerus (Leionotus) tamarinus*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des

guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i-xx (1852-1853) [203]. Type data: holotype, MNHP \*adult, from Tas. (locality is probably incorrect), see Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202.

Distribution: NE coastal, SE coastal, SW coastal, Qld., N.S.W., W.A., (Tas.). Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (redescription as *Pseudepipona (Epidodynerus) tamarina*).

***Epidodynerus tamarinus inviolatus* Giordani Soika, 1977**

***Epidodynerus tamarinus inviolatus*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 [118]. Type data: holotype, MNH \*adult, from N.S.W.

Distribution: N.S.W.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Epidodynerus tasmaniensis* (Saussure, 1853)**

***Odynerus (Leionotus) tasmaniensis*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i-xx (1852-1853) [199 pl xviii fig 4]. Type data: holotype, MNHP \*M. adult, from Tas.

***Rhynchium abispoides*** Meade-Waldo, G. (1910). New species of Diptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (8) **5**: 30-51 [50]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Townsville, Qld., see Cheesman, L.E. (1954). A new species of *Odynerus*, subgen. *Rhygchium* (Eumeninae), from the Loyalty Islands. *Ann. Mag. Nat. Hist.* (12) **7**: 385-390.

Taxonomic decision of Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [92].

Distribution: NE coastal, Murray-Darling basin, S Gulfs, W plateau, SW coastal, NW coastal, Qld., N.S.W., Vic., S.A., W.A., Tas. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: CSIRO (1970). *The Insects of Australia*. A textbook for students and research workers. Melbourne : Melbourne

Univ. Press 1029 pp. (plate 6 K - model for mimicry); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (distribution).

### *Eudiscoelius* Friese, 1904

*Eudiscoelius* Friese, H. (1904). Eine metallisch gefärbte Vespide. *Z. Syst. Hymenopt. Dipterol.* **4**: 16. Type species *Eudiscoelius metallicus* Friese, 1904 by monotypy.

*Euchalcomenes* Turner, R.E. (1908). Two new diplopterous Hymenoptera from Queensland. *Trans. Entomol. Soc. Lond.* **1908**: 89–91 [90]. Type species *Euchalcomenes gilberti* Turner, 1908 by original designation.

Taxonomic decision of Giordani Soika, A. (1943). Le specie indo-australiane del genere *Pachymenes* (Hym. Vespidae). *Mem. Soc. Entomol. Ital.* **22**: 102–117 [102].

This group is also found in the Oriental Region, see Giordani Soika, A. (1943). Le specie indo-australiane del genere *Pachymenes* (Hym. Vespidae). *Mem. Soc. Entomol. Ital.* **22**: 102–117.

### *Eudiscoelius gilberti* (Turner, 1908)

*Euchalcomenes gilberti* Turner, R.E. (1908). Two new diplopterous Hymenoptera from Queensland. *Trans. Entomol. Soc. Lond.* **1908**: 89–91 [90]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, Qld.; only published localities Kuranda and Cairns. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Meade-Waldo, G. (1910). New species of Diptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (8) **5**: 30–51 (taxonomy as *Nortonia gilberti*); Giordani Soika, A. (1943). Le specie indo-australiane del genere *Pachymenes* (Hym. Vespidae). *Mem. Soc. Entomol. Ital.* **22**: 102–117 (taxonomy as *Pachymenes gilberti*); Riek, E.F. in CSIRO (1970). *The Insects of Australia*. A textbook for students and research workers. Melbourne : Melbourne Univ. Press 1029 pp. (generic placement).

### *Eumenes* Latreille, 1802

*Eumenes* Latreille, P.A. (1802). *Histoire Naturelle, Générale et Particulière des Crustacés et des Insectes*. Paris : F. Dufart Vol. 3 xii 13+467 pp. (1802–1803) [360]. Type species *Vespa coarctata* Linnaeus, 1758 by subsequent designation, see Latreille, P.A. (1810). *Considérations Générales sur l'Ordre Naturel des Animaux Composant les Classes des Crustacés, des Arachnides, et des Insectes; avec un tableau méthodique de leurs genres, disposés en familles*. Paris : F. Schoell 444 pp.

This group is found worldwide, see Richards, O.W. (1980). Scolioidea, Vespoidea and Sphecoidea. Hymenoptera, Aculeata. *Handbk. Ident. Br. Insects* **6**(3b): 1–118. Species now known not to occur in Australia: *Eumenes fluctuans* Saussure, 1852 (now placed in *Katamenes* Meade-Waldo, 1910), described from Australia (but without locality label on the holotype), is from the Palaearctic Region *teste* van der Vecht, J. & Fischer, F.C.J. (1972). Palaearctic Eumenidae. *Hymenopterorum Catalogus* **8**: 1–199.

### *Eumenes apicalis* Macleay, 1826

*Eumenes apicalis* Macleay, W.S. (1826). Annulosa. Catalogue of insects, collected by Captain King, R.N. pp. 438–469 in King, P.P. *Narrative of a Survey of the Inter-tropical and Western Coasts of Australia Performed between the Years 1818 and 1822*. London : John Murray Vol. 2 [457]. Type data: syntypes (probable), adult whereabouts unknown, from Australia.

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

### *Eumenes simplicilamellatus* Giordani Soika, 1935

*Eumenes (Eumenes) simplicilamellatus* Giordani Soika, A. (1935). Ricerche sistematiche sugli *Eumenes* e *Pareumenes* dell'Archipelago Malese e della Nuova Guinea. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* **57**: 114–151 [124 pl 2 fig 4]. Type data: lectotype, MCG \*F. adult, from Kapakapa, New Guinea, designation by Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934–1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7–53. from Kapakapa, New Guinea.

Distribution: NE coastal, Qld.; only published localities Cairns, Cooktown and Kuranda, also in New Guinea. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130–279 (distribution); Giordani Soika, A. (1961). Les lignées philétiques des *Eumenes* s.l. du globe (Hym. Vesp.). *Trans. 11th Int. Congr. Entomol.* (Vienna, 1960) **1**: 240–245 (taxonomy).

### *Euodynerus* Dalla Torre, 1904

*Euodynerus* Dalla Torre, K.W. von (1904). Hymenoptera. Fam. Vespidae. *Genera Insectorum* **19**: 1–108 [38] [proposed for secondary division of *Odynerus* Latreille, 1802; placed on Official List of Generic Names in Zoology, see International Commission on Zoological Nomenclature (1970). Opinion 893. Eumenidae names of Saussure (Hymenoptera) : grant of availability to certain names proposed for secondary divisions of genera. *Bull. Zool. Nomen.* **26**: 187–191]. Type species *Vespa dantici* Rossi, 1790 by subsequent designation, see Blüthgen, P. (1938). Systematisches Verzeichnis der Faltenwespen Mittel-europas, Skandinaviens und Englands. *Konowia* **16**: 270–295.



This group is also found in the Holarctic and Ethiopian Regions, see Richards, O.W. (1980). Scolioidea, Vespoidea and Sphecoidea. Hymenoptera, Aculeata. *Handbk. Ident. Br. Insects* 6(3b): 1-118.

***Euodynerus polyphemus* (Kirby, 1888)**

*Odynerus polyphemus* Kirby, W.F. (1888). On the insects (exclusive of Coleoptera and Lepidoptera) of Christmas Island. *Proc. Zool. Soc. Lond.* 1888: 546-555 [551]. Type data: syntypes, BMNH \*5M., 4F. adult, from Christmas Is.

Distribution: Christmas Is.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Kirby, W.F. (1900). Hymenoptera. pp. 81-88 in Andrews, C.W. *A Monograph of Christmas Island (Indian Ocean)*: physical features and geology; with descriptions of the fauna and flora by numerous contributors. London : British Museum 337+20 pp. (repeats description); Giordani Soika, A. (1958). Biogeografia, evoluzione e sistematica dei Vespidi solitari della Polinesia meridionale. *Boll. Mus. Civ. Stor. Nat. Venezia* 10: 183-221 (taxonomy).

***Flammodynerus* Giordani Soika, 1962**

*Flammodynerus* Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57-202 [124]. Type species *Odynerus subalaris* Saussure, 1855 by original designation.

***Flammodynerus flammiger* (Saussure, 1856)**

Taxonomic decision of Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57-202 [131].

***Flammodynerus flammiger flammiger* (Saussure, 1856)**

*Odynerus flammiger* Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i-xvi (1854-1856) [282]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from N.S.W.

Distribution: SE coastal, Murray-Darling basin, N.S.W., Vic. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57-202 (redescription, generic placement); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* 55: 109-138 (taxonomy, distribution).

***Flammodynerus flammiger nigroflammeus* Giordani Soika, 1962**

*Flammodynerus flammiger nigroflammeus* Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57-202 [131]. Type data: holotype, ZMB \*F. adult, from Melbourne, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Flammodynerus pseudoloris* Giordani Soika, 1962**

*Flammodynerus pseudoloris* Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57-202 [125]. Type data: holotype, ZMB \*F. adult, from Marloo Station, Wurarga, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Flammodynerus subalaris* (Saussure, 1855)**

*Odynerus subalaris* Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i-xvi (1854-1856) [240 pl xiv fig 5]. Type data: holotype, MNHP \*F. adult, from Australia (as New Holland).

Distribution: NE coastal, SE coastal, Qld., N.S.W.; only published localities Caloundra, Brisbane, Sydney, South West Rocks and Trial Bay. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57-202 (redescription, generic placement); Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934-1960. *Boll. Mus. Civ. Stor. Nat. Venezia* 24: 7-53 (distribution, taxonomy).

***Ischnocoelia* Perkins, 1908**

*Ischnocoelia* Perkins, R.C.L. (1908). Some remarkable Australian Hymenoptera. *Proc. Hawaii. Entomol. Soc.* 2: 27-35 [32]. Type species *Ischnocoelia xanthochroma* Perkins, 1908 by monotypy.

***Ischnocoelia ecclesiastica* (Rayment, 1954)**

*Discoelius ecclesiasticus* Rayment, T. (1954). The trail of the running postman. *Proc. R. Zool. Soc. N.S.W.* 1952-53: 18-22 [19]. Type data: holotype, ANIC F. adult, from Watsonia, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant; nest in soil, prey larval Lepidoptera (Geometridae). Biological references: Rayment, T.

(1953). Pictorial biology of a leafcutter bee. *Megachile chrysopyga* Smith. *Vict. Nat.* **70**: 50–51 (biology); van der Vecht, J. (1981). Indo-Australian solitary wasps. *Proc. K. Ned. Akad. Wet. (c)* **84**: 443–464 (generic placement).

***Ischnocoelia elongata*** (Saussure, 1855)

***Discoelius elongatus*** Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [124 pl vi fig 7]. Type data: syntypes (probable), OUM or BMNH \*F. adult, from S.A. (as Australie méridionale).

Distribution: SE coastal, N.S.W., Vic., S.A.; only published localities Gordon, Kealesville (presumably Healesville) and S.A. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy as *Pseudozethus elongatus*); Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 (redescription, generic placement).

***Ischnocoelia ferruginea*** (Meade-Waldo, 1910)

***Elimus ferrugineus*** Meade-Waldo, G. (1910). New species of Diploptera in the collection of the British Museum. *Ann. Mag. Nat. Hist. (8)* **5**: 30–51 [38]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from S.A.

Distribution: SE coastal, Vic., S.A.; only published localities Melbourne and S.A. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera. Biological references: Meade-Waldo, G. (1913). New species of Diploptera in the collection of the British Museum. Part IV. *Ann. Mag. Nat. Hist. (8)* **11**: 44–54 (generic placement); Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 (redescription).

***Ischnocoelia fulva*** (Schulthess-Rechberg, 1910)

Taxonomic decision of Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 [81].

***Ischnocoelia fulva fulva*** (Schulthess-Rechberg, 1910)

***Stenolabus fulvus*** Schulthess-Rechberg, A. von (1910). Über einige neue und weniger bekannte Eumeniden (Vespiden, Hymenoptera). *Dt. Entomol. Z.* **1910**: 187–192 [190]. Type data: holotype, GMNH \*M. adult, from Adelaide, S.A.

Distribution: S Gulfs, SW coastal, S.A., W.A.; only published localities Adelaide and Yanchep. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Ischnocoelia fulva major*** Meade-Waldo, 1914

***Ischnocoelia integra major*** Meade-Waldo, G. (1914). Notes on the Hymenoptera in the collection of the British Museum, with descriptions of new species. V. *Ann. Mag. Nat. Hist. (8)* **14**: 450–464 [459] [described as variety]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: SW coastal, W.A.; only published localities Yallingup and Bunbury. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Ischnocoelia integra*** (Schulthess-Rechberg, 1910)

Taxonomic decision of Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 [87].

***Ischnocoelia integra integra*** (Schulthess-Rechberg, 1910)

***Stenolabus integer*** Schulthess-Rechberg, A. von (1910). Über einige neue und weniger bekannte Eumeniden (Vespiden, Hymenoptera). *Dt. Entomol. Z.* **1910**: 187–192 [191]. Type data: holotype, ETHZ \*M. adult, from N.S.W.

Distribution: NE coastal, Qld., N.S.W.; only published localities Brisbane, Stradbroke Is. and N.S.W. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera. Biological references: Meade-Waldo, G. (1910). New species of Diploptera in the collection of the British Museum. *Ann. Mag. Nat. Hist. (8)* **5**: 30–51 (generic placement); Bohart, R.M. & Stange, L.A. (1965). A revision of the genus *Zethus* Fabricius in the western hemisphere (Hymenoptera : Eumenidae). *Univ. Calif. Publ. Entomol.* **40**: 1–208 (taxonomy).

***Ischnocoelia integra carnowi*** Giordani Soika, 1969

***Ischnocoelia integra carnowi*** Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 [87]. Type data: holotype, SAMA \*F. adult, from Mt. Lofty Ranges, S.A.

Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Ischnocoelia occidentalis*** Giordani Soika, 1969

Taxonomic decision of Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 [82].

***Ischnocoelia occidentalis occidentalis*** Giordani Soika, 1969

***Ischnocoelia occidentalis*** Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 [82]. Type data: holotype, BMNH \*M. adult, from Dedari, W.A.

Distribution: SW coastal, W plateau, W.A.; only published localities Merredin and Dedari. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Ischnocoelia occidentalis blumburyensis*** Giordani Soika, 1969

***Ischnocoelia occidentalis blumburyensis*** Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 [84]. Type data: holotype, AM M. adult, from Bunbury (as Blumbury), W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Ischnocoelia polychroma*** Giordani Soika, 1969

***Ischnocoelia polychroma*** Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 [92]. Type data: holotype, AM M. adult, from Parkes, N.S.W.

Distribution: Murray-Darling basin, Qld., N.S.W.; only published localities Condamine and Parkes. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Ischnocoelia robusta*** (Meade-Waldo, 1910)

Taxonomic decision of Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 [91].

***Ischnocoelia robusta robusta*** (Meade-Waldo, 1910)

***Elimus robustus*** Meade-Waldo, G. (1910). New species of Diptera in the collection of the British Museum. *Ann. Mag. Nat. Hist. (8)* **5**: 30–51 [Jan. 1910] [40]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from S.A.

***Stenolabus vulneratus*** Schulthess-Rechberg, A. von (1910). Über einige neue und weniger bekannte Eumeniden (Vespiden, Hymenoptera). *Dt. Entomol. Z.* **1910**: 187–192 [Mar. 1910] [191]. Type data: lectotype, GMNH \*F. adult, from Adelaide, S.A., designation by Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100.

Taxonomic decision of Meade-Waldo, G. (1914). Notes on the Hymenoptera in the collection of the British Museum, with descriptions of new species. V. *Ann. Mag. Nat. Hist. (8)* **14**: 450–464 [459].

Distribution: S Gulfs, NW coastal, SW coastal, S.A., W.A.; only published localities Adelaide, Marloo Station, Wurarga and King George Sound. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Meade-Waldo, G. (1913). New species of Diptera in the collection of the British Museum. Part IV. *Ann. Mag. Nat. Hist. (8)* **11**: 44–54 (generic placement).

***Ischnocoelia robusta analis*** Giordani Soika, 1969

***Ischnocoelia robusta analis*** Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 [91]. Type data: holotype, ZMB \*M. adult, from Marloo Station, Wurarga, W.A.

Distribution: NW coastal, W plateau, W.A.; only published localities Marloo Station, Wurarga and Dedari. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Ischnocoelia robusta aurantiaca*** Giordani Soika, 1969

***Ischnocoelia robusta aurantiaca*** Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 [91]. Type data: holotype, SAMA \*F. adult, from Balladonia, W.A.

Distribution: W plateau, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Ischnocoelia robusta unicolor*** Giordani Soika, 1969

***Ischnocoelia robusta unicolor*** Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 [92]. Type data: holotype, A. Giordani Soika pers. coll. \*F. adult, from Central Australia.

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Ischnocoelia xanthochroma*** Perkins, 1908

***Ischnocoelia xanthochroma*** Perkins, R.C.L. (1908). Some remarkable Australian Hymenoptera. *Proc. Hawaii. Entomol. Soc.* **2**: 27–35 [32]. Type data: syntypes (probable), BMNH \*adult, from middle Qld.

Distribution: NE coastal, SE coastal, N coastal, Qld., Vic., N.T. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 (redescription); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (distribution).



**Leptomenoides** Giordani Soika, 1962

**Leptomenoides** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [171]. Type species *Leptomenoides placidior* Giordani Soika, 1962 by original designation.

**Leptomenoides cairnensis** Giordani Soika, 1962

**Leptomenoides cairnensis** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [177]. Type data: holotype, BMNH (probable) \*F. adult, from Cairns, Kuranda, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

**Leptomenoides extraneus** (Saussure, 1855)

*Odynerus (Leionotus) exilis* Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [157 pl xvii fig 2] [*non Odynerus exilis* Schaeffer, 1841]. Type data: holotype, MNHP \*F. adult, from Tas.

*Odynerus (Leionotus) extraneus* Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Euméniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [224] [*nom. nov. for Odynerus (Leionotus) exilis* Saussure, 1853].

Distribution: NE coastal, Qld., Tas.; only published localities Mackay and Tas. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130–279 (description male as *Pachymenes extraneus*); Giordani Soika, A. (1943). Le specie indo-australiane del genere *Pachymenes* (Hym. Vespidae). *Mem. Soc. Entomol. Ital.* **22**: 102–117 (taxonomy); Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (redescription, generic placement).

**Leptomenoides histrio** Giordani Soika, 1962

**Leptomenoides histrio** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [180]. Type data: holotype, USNM \*F. adult, from Mosman, N.S.W.

Distribution: SE coastal, N.S.W.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

**Leptomenoides mackayensis** Giordani Soika, 1962

**Leptomenoides mackayensis** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [175]. Type data: holotype, BMNH \*F. adult, from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

**Leptomenoides pachymeniformis** Giordani Soika, 1962

**Leptomenoides pachymeniformis** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [178]. Type data: holotype, BMNH \*F. adult, from N.S.W.

Distribution: NE coastal, Qld., N.S.W.; only published localities Tamborine Mt. and N.S.W. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

**Leptomenoides placidior** Giordani Soika, 1962

**Leptomenoides placidior** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [180]. Type data: holotype, BMNH \*F. adult, from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay and Somerset. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

**Leptomenoides pronotalis** Giordani Soika, 1962

**Leptomenoides pronotalis** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [173]. Type data: holotype, BMNH \*F. adult, from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay, Kuranda, Cairns district and Brisbane. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

**Macrocalymma** Perkins, 1908

**Macrocalymma** Perkins, R.C.L. (1908). Some remarkable Australian Hymenoptera. *Proc. Hawaii. Entomol. Soc.* **2**: 27–35 [31]. Type species *Macrocalymma smithianum* Perkins, 1908 by monotypy.

**Macrocalymma aliciae** Meade-Waldo, 1914

**Macrocalymma aliciae** Meade-Waldo, G. (1914). Notes on the Hymenoptera in the collection of the British Museum, with descriptions of new species. V. *Ann. Mag. Nat. Hist.* (8) **14**: 450–464 [459]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25-100 (redescription).

***Macrocalymma smithianum* Perkins, 1908**

***Macrocalymma smithianum* Perkins, R.C.L. (1908).** Some remarkable Australian Hymenoptera. *Proc. Hawaii. Entomol. Soc.* **2**: 27-35 [31]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Qld. ("common in middle Qld.").

Distribution: NE coastal, Qld.; only published localities Mackay and Brisbane. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130-279 (description of female); Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25-100 (redescription); Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934-1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7-53 (taxonomy).

***Odynerus* Latreille, 1802**

***Odynerus* Latreille, P.A. (1802). *Histoire Naturelle, Générale et Particulière des Crustacés et des Insectes*. Paris : F. Dufart Vol. 3 xii 13+467 pp. (1802-1803) [362] [for discussion on type for genus, see Richards, O.W. & van der Vecht, J. (1968). The type of the genus *Odynerus* Latreille (Hymenoptera, Vespoidea). *Entomol. Ber. (Amst.)* **28**: 196-197]. Type species *Vespa spinipes* Linnaeus, 1758 by subsequent designation, see Shuckard, W.E. (1837). Description of a new British wasp, with an account of its development. *Mag. Nat. Hist. (ns)* **1**: 490-496.**

This group is also found in the Palaearctic Region, see van der Vecht, J. & Fischer, F.C.J. (1972). Palearctic Eumenidae. *Hymenopterorum Catalogus* **8**: 1-199. Species now known not to occur in Australia: *Odynerus alecto* Lepeletier, 1841 (now placed in *Epiodynerus* Giordani Soika, 1958), described from "N. Holl.", is from New Caledonia *teste* Giordani Soika, A. (1958). Biogeografia, evoluzione e sistematica dei Vespidi solitari della Polinesia meridionale. *Boll. Mus. Civ. Stor. Nat. Venezia* **10**: 183-221 and *Odynerus drewseni* Saussure, 1857 (now placed in *Orancistrocerus* van der Vecht, 1963) described from "La Nouvelle Hollande", is from China *teste* van der Vecht, J. (1963). Studies on Indo-Australian and east-Asiatic Eumenidae (Hymenoptera, Vespoidea). *Zool. Verh.* **60**: 1-116.

***Odynerus indecoratus* Giordani Soika, 1962**

***Odynerus (Leionotus) decoratus* Bingham, C.T. (1912).** South African and Australian Aculeate Hymenoptera in the Oxford Museum. *Trans. Entomol. Soc. Lond.* **1912**: 375-383 [379] [as *Lionotus*; non *Odynerus decoratus* Saussure, 1855]. Type data: syntypes (probable), OUM \*adult, from Towranna Plains between Yule River and Sherlock River, W.A.

***Odynerus indecoratus* Giordani Soika, A. (1962).** Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [201] [*nom. nov.* for *Odynerus (Leionotus) decoratus* Bingham, 1912].

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Pachycoelius* Giordani Soika, 1969**

***Pachycoelius* Giordani Soika, A. (1969).** Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25-100 [54]. Type species *Pachycoelius brevicornis* Giordani Soika, 1969 by original designation.

***Pachycoelius brevicornis* Giordani Soika, 1969**

***Pachycoelius brevicornis* Giordani Soika, A. (1969).** Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25-100 [55]. Type data: holotype, WAM \*M. adult lost, from Dudinin (as Dudiniu), W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Pachycoelius carinatus* (Meade-Waldo, 1910)**

***Discoelius carinatus* Meade-Waldo, G. (1910).** New species of Diploptera in the collection of the British Museum. *Ann. Mag. Nat. Hist. (8)* **5**: 30-51 [38]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Vic.

Distribution: Murray-Darling basin, S Gulfs, Vic., S.A.; only published localities Kiata and Rostrevor. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Bequaert, J.C. (1928). A study of certain types of diplopterous wasps in the collection of the British Museum. *Ann. Mag. Nat. Hist. (10)* **2**: 138-176 (type locality); Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25-100 (redescription, generic placement, distribution).

***Pachycoelius mediocris* Giordani Soika, 1969**

***Pachycoelius mediocris* Giordani Soika, A. (1969).** Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25-100 [60]. Type data: holotype, UZM \*F. adult, from Australia (as New Holland).

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor* Saussure, 1856**

***Paralastor*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i-xvi (1854-1856) [328] [proposed with subgeneric rank in *Alastor* Lepeletier, 1841; placed on Official List of Generic Names in Zoology, see International Commission on Zoological Nomenclature (1970). Opinion 893. Eumenidae names of Saussure (Hymenoptera) : grant of availability to certain names proposed for secondary divisions of genera. *Bull. Zool. Nomen.* **26**: 187-191; van der Vecht, J. (1983). *Ancistroceroides* Saussure, 1855 : proposed change of type species in order to preserve the well-established name *Paralastor* Saussure, 1856 (Hymenoptera, Vespoidea, Eumenidae). Z.N.(S.)2280. *Bull. Zool. Nomen.* **40**: 111-113 states that *Paralastor* is undoubtedly a junior subjective synonym of *Ancistroceroides* Saussure, 1855, but in order to avoid the confusion which would be caused by implementing this synonymy (affecting the generic assignment of approximately 130 species), he has requested that the International Commission on Zoological Nomenclature use its plenary powers to designate an alternative type species for *Ancistroceroides*; *Ancistroceroides* would then be used for a small group of South American Eumenidae, and *Paralastor* would remain the valid name for the large Australian group; on the assumption that the case to the International Commission will be successful, the species *Odynerus cruentus* Saussure, 1855, designated as type species of *Ancistroceroides* in 1925, is transferred to *Paralastor*]. Publication date established from Griffin, F.J. (1939). On the dates of publication of Saussure (H. de) : *Études sur la famille des Vespides* 1-3, 1852-1858. *J. Soc. Bibliogr. Nat. Hist.* **1**: 211-212. Type species *Alastor tuberculatus* Saussure, 1853 by subsequent designation, see van der Vecht, J. (1967). The status of certain genus-group names in the Eumenidae (Hymenoptera, Vespoidea). Z.N.(S.) 1689. *Bull. Zool. Nomen.* **24**: 27-33.

***Paralastor abnormis* (Bingham, 1912)**

***Alastor abnormis*** Bingham, C.T. (1912). South African and Australian Aculeate Hymenoptera in the Oxford Museum. *Trans. Entomol. Soc. Lond.* **1912**: 375-383 [380]. Type data: syntypes (probable), OUM \*M. adult, from Towranna Plains, W.A.

Distribution: N coastal, NW coastal, W plateau, W.A. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (taxonomy); Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei

tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934-1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7-53 (distribution).

***Paralastor aequifasciatus* Perkins, 1914**

***Paralastor aequifasciatus*** Perkins, R.C.L. (1914). New species of *Paralastor*, Sauss. (Hymenoptera, Fam. Eumenidae) collected by Mr. R.E. Turner in S.W. Australia. *Ann. Mag. Nat. Hist.* (8) **14**: 235-240 [239]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor alastoripennis* (Saussure, 1853)**

***Odynerus (Ancistrocerus) alastoripennis*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i-xx (1852-1853) [147 pl xvi figs 5,5a]. Type data: holotype, MNHP \*F. adult, from Tas.

Distribution: Tas.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (generic placement).

***Paralastor albifrons* (Fabricius, 1775)**

***Vespa albifrons*** Fabricius, J.C. (1775). *Systema Entomologiae*, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus. Flensburgi et Lipsiae : Kortii xxvii 832 pp. [366]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I (taxonomy); Bequaert, J. (1928). The diplopterous wasps of Fabricius, in the Banksian collection at the British Museum. *Bull. Brooklyn Entomol. Soc.* **23**: 53-63 (taxonomy).

***Paralastor alexandriae* Perkins, 1914**

***Paralastor alexandriae*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I [618 pl I figs 7, 22]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Alexandria, N.T.



Distribution: N coastal, N Gulf, N.T.; only published localities Alexandria, Adelaide River and Kakadu Natl. Park. Ecology: larva - sedentary, predator : adult - volant; nest in abandoned mud-nests of *Sceliphron* spp., prey larval Lepidoptera (Gelechiidae). Biological references: Naumann, I.D. (1983). The biology of mud nesting Hymenoptera (and their associates) and Isoptera in rock shelters of the Kakadu Region, Northern Territory. *Aust. Natl. Parks & Wildl. Ser. Spec. Publ.* 10 pp. 127-189 (nest, biology).

***Paralastor anostreptus* Perkins, 1914**

***Paralastor anostreptus*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* 1914: 563-624 pl I [613]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from S Heywood Is., W.A.

Distribution: N coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor arenicola* Perkins, 1914**

***Paralastor arenicola*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* 1914: 563-624 pl I [618]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Hermannsburg, N.T.

Distribution: Lake Eyre basin, N.T.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor argentifrons* (Smith, 1857)**

***Alastor argentifrons*** Smith, F. (1857). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Pt. V. Vespidae pp. 1-147 London : British Museum [90]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: SE coastal, S Gulfs, Vic., S.A.; only published localities Melbourne and Adelaide. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* 1914: 563-624 pl I (redescription).

***Paralastor argyrius* Perkins, 1914**

***Paralastor argyrius*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* 1914: 563-624 pl I [597]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Wagga Wagga, N.S.W. (as Wagga).

Distribution: Murray-Darling basin, N.S.W.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor aterrimus* Turner, 1919**

***Paralastor aterrimus*** Turner, R.E. (1919). New Australian diplopterous Hymenoptera. *Ann. Mag. Nat. Hist.* (9) 3: 398-399 [398]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Townsville, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor atripennis* Perkins, 1914**

***Paralastor atripennis*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* 1914: 563-624 pl I [602 pl I fig 13]. Type data: holotype, OUM \*F. adult, from Adelaide, S.A.

Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor aurocinctus* (Guérin, 1831)**

***Odynerus aurocinctus*** Guérin-Ménéville, F.E. (1831). Insectes. in Duperrey, L.J. (1830-1832). *Voyage Autour du Monde, Exécuté par Ordre du Roi, sur la Corvette de la Majesté, La Coquille, Pendant les Années 1822, 1823, 1824, et 1825, ...* Atlas. Histoire naturelle. Zoologie. pls 1-21 Paris : Bertrand [pl 9 fig 4] [first published as an illustration, written description (page 266) in Guérin-Ménéville, F.E. (1838). Crustacés, Arachnides et Insectes. in Duperrey, L.J. (1838). *Voyage Autour du Monde, Exécuté par Ordre du Roi, sur la Corvette de la Majesté, La Coquille, Pendant les Années 1822, 1823, 1824, et 1825, ...* Zool. Vol. ii Pt. 2 Div. 1 Chap. xiii pp. 57-302 Paris : Bertrand]. Type data: syntypes (probable), MCG \*F. adult, from Australia.

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* 1914: 563-624 pl I (redescription as *Paralastor aureocinctus*); Guiglia, D. & Pasteels, J. (1961). Aggiunte ed osservazioni all'elenco delle specie di imenotteri descritte da Guérin-Ménéville che si trovano nelle collezioni del Museo di Genova. *Ann. Mus. Civ. Stor. Nat. Giacomo Doria* 72: 17-20 (note on type, as *aureocinctus*); Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57-202 (taxonomy, as *Paralastor aureocinctus* Perkins).

***Paralastor auster* Perkins, 1914**

***Paralastor auster*** Perkins, R.C.L. (1914). New species of *Paralastor*, Sauss. (Hymenoptera, Fam. Eumenidae) collected by Mr. R.E. Turner in S.W. Australia. *Ann. Mag. Nat. Hist.* (8) **14**: 235–240 [237]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Paralastor australis* (Saussure, 1853)**

***Alastor australis*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [250]. Type data: syntypes (probable), GMNH \*F. adult, from Australia (as New Holland).

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (taxonomy).

***Paralastor bicarinatus* Perkins, 1914**

***Paralastor bicarinatus*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [601]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Paralastor bischoffi* Giordani Soika, 1961**

***Paralastor bischoffi*** Giordani Soika, A. (1961). Notulae Vespilogicae. XIII - *Paralastor* nuovi o poco noti. *Boll. Soc. Entomol. Ital.* **91**: 12–15 [12]. Type data: holotype, ZMB \*F. adult, from Australia "Merinaids" (locality not found in gazetteer).

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor brisbanensis* Perkins, 1914**

***Paralastor brisbanensis*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other

Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [607]. Type data: holotype, BMNH \*F. adult, from Brisbane, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor brunneus* (Saussure, 1856)**

***Alastor* (*Paralastor*) *brunneus*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Euméniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [337]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (redescription).

***Paralastor caprai* Giordani Soika, 1977**

***Paralastor caprai*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [135]. Type data: holotype, BMNH \*F. adult, from Adelaide River, N.T.

Distribution: N coastal, N.T.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Paralastor carinatus* (Smith, 1857)**

***Alastor carinatus*** Smith, F. (1857). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Pt. V. Vespidae pp. 1–147 London : British Museum [90]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (redescription).

***Paralastor clypeopunctatus* Schulthess-Rechberg, 1925**

***Paralastor clypeopunctatus*** Schulthess-Rechberg, A. von (1925). Beitrag zur Kenntnis der Gattung *Alastor* Lep. (Hym. Vesp.). *Konowia* **4**: 57–65, 195–209, 257–263 [261]. Type data: holotype, NHRM \*F. adult, from Herberton, Qld.

Distribution: NE coastal, Qld.; type locality only.  
Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor commutatus* Perkins, 1914**

***Paralastor commutatus*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I [608]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

Distribution: NW coastal, W.A.; type locality only.  
Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor comptus* Perkins, 1914**

Taxonomic decision of Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I [617].

***Paralastor comptus comptus* Perkins, 1914**

***Paralastor comptus*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I [617]. Type data: holotype, BMNH \*M. adult, from Herberton, Qld.

Distribution: NE coastal, Qld.; type locality only.  
Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor comptus rubescens* Perkins, 1914**

***Paralastor comptus rubescens*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I [617] [described as variety]. Type data: holotype, BMNH \*M. adult, from Herberton, Qld.

Distribution: NE coastal, Qld.; type locality only.  
Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor conspiciendus* Perkins, 1914**

***Paralastor conspiciendus*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I [581]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Inkerman, near Townsville, Qld.

Distribution: NE coastal, Qld.; only published localities Townsville and Inkerman. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor conspicuus* Perkins, 1914**

***Paralastor conspicuus*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other

Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I [580]. Type data: holotype, BMNH \*M. adult, from Cairns district, Qld.

Distribution: NE coastal, Qld.; type locality only.  
Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor constrictus* Perkins, 1914**

***Paralastor constrictus*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I [615]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay and Bundaberg. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (taxonomy); CSIRO (1970). *The Insects of Australia*. A textbook for students and research workers. Melbourne : Melbourne Univ. Press 1029 pp. (plate 6T - model for mimicry).

***Paralastor cruentatus* (Saussure, 1867)**

***Alastor* (*Paralastor*) *cruentatus*** Saussure, H. de (1867). Hymenoptera. in, *Reise der österreichischen Fregatte Novara um die Erde in den Jahren 1857, 1858, 1859 unter den Befehlen des Commodore B. von Wüllerstorff-Urbair*. Zoologischer Theil. Wien : K-K Hof- und Staatsdruckerei Vol. 2(1a) 138 pp. [18 pl I fig 12]. Type data: syntypes (probable), adult whereabouts unknown, from Sydney, N.S.W.

Distribution: SE coastal, N.S.W.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor cruentus* (Saussure, 1855)**

***Odynerus* (*Ancistroceroides*) *cruentus*** Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i-xvi (1854-1856) [221]. Type data: holotype, BMNH \*F. adult lost, from Australia (as New Holland).

Distribution: S.A.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Bequaert, J. (1925). The genus *Ancistrocerus* in North America, with a partial key to the species. *Trans. Am. Entomol. Soc.* **51**: 57-117 (designation as type species of *Ancistroceroides*); International Commission on Zoological Nomenclature (1970). Opinion 893. Eumenidae names of Saussure (Hymenoptera) : grant of availability to certain names proposed for secondary divisions of genera.



*Bull. Zool. Nomen.* **26**: 187–191 (placed on Official List of Specific Names); van der Vecht, J. (1983). *Ancistroceroides* Saussure, 1855 : proposed change of type species in order to preserve the well-established name *Paralastor* Saussure, 1856 (Hymenoptera, Vespoidea, Eumenidae). Z.N.(S.)2280. *Bull. Zool. Nomen.* **40**: 111–113 (type lost, generic placement - see note under *Paralastor*).

***Paralastor darwinianus* Perkins, 1914**

*Paralastor darwinianus* Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [617]. Type data: holotype, BMNH \*F. adult, from Darwin, N.T.

Distribution: N coastal, N.T.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor debilis* Perkins, 1914**

*Paralastor debilis* Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [595 pl I fig 20]. Type data: holotype, OUM \*M. adult, from Swan River, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor debilitatus* Perkins, 1914**

*Paralastor debilitatus* Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [611]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Vic.

Distribution: S Gulfs, S.A., N.S.W., Vic.; only published localities Adelaide, N.S.W. and Vic. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). New species of *Paralastor*, Sauss. (Hymenoptera, Fam. Eumenidae) collected by Mr. R.E. Turner in S.W. Australia. *Ann. Mag. Nat. Hist.* (8) **14**: 235–240 (taxonomy).

***Paralastor dentiger* Perkins, 1914**

*Paralastor dentiger* Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [603 pl I fig 11]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

Distribution: NW coastal, SW coastal, W.A.; only published localities Champion Bay and Swan River. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli

*Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor despectus* Perkins, 1914**

*Paralastor despectus* Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [589]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from W.A.

Distribution: Qld., W.A.; localities not specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1961). Notulae Vespilogicae. XIII - *Paralastor* nuovi o poco noti. *Boll. Soc. Entomol. Ital.* **91**: 12–15 (description of male).

***Paralastor diabolicus* Turner, 1919**

*Paralastor diabolicus* Turner, R.E. (1919). New Australian dipterous Hymenoptera. *Ann. Mag. Nat. Hist.* (9) **3**: 398–399 [398]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Townsville, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor diadema* Rayment, 1954**

*Paralastor diadema* Rayment, T. (1954). She stands on the waters. *Proc. R. Zool. Soc. N.S.W.* **1952–53**: 15–18 [15]. Type data: syntypes (probable), adult whereabouts unknown, from Gunbower Is. and Sandringham, Vic.

Distribution: SE coastal, Murray-Darling basin, Vic.; only published localities Gunbower Is. and Sandringham. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor donatus* Perkins, 1914**

*Paralastor donatus* Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [588]. Type data: holotype, BMNH \*adult, from Bacchus Marsh, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor dubiosus* Perkins, 1914**

*Paralastor dubiosus* Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [580]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only.  
Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor dyscritias* Perkins, 1914**

***Paralastor dyscritias*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I [614]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor elegans* Perkins, 1914**

***Paralastor elegans*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I [581]. Type data: holotype, BMNH \*F. adult, from N Qld.

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor emarginatus* (Saussure, 1853)**

***Alastor emarginatus*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i-xx (1852-1853) [254]. Type data: syntypes (probable), MNHP \*F. adult, from Tas.

Distribution: Tas.; only published locality Eaglehawk Neck. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I (distribution); Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (doubts type locality).

***Paralastor eriurgus* (Saussure, 1853)**

***Alastor eriurgus*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i-xx (1852-1853) [251 pl xxi fig 4]. Type data: syntypes (probable), GMNH \*F. adult, from Australia (as New Holland).

Distribution: NE coastal, SE coastal, Qld., N.S.W.; only published localities Brisbane and Sydney. Ecology: larva - sedentary, predator : adult - volant; nest of "gum" from mango tree, prey larval Lepidoptera. Biological references: Froggatt, W.W. (1894). On the nests and habits of Australian Vespidae and Larridae. *Proc. Linn. Soc. N.S.W.* (2) **9**: 27-34 (biology); Steel, T. (1909). Notes and exhibits. *Proc. Linn. Soc. N.S.W.* **34**: 117 (nest); Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I (redescription); Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (taxonomy).

***Paralastor euclidias* Perkins, 1914**

***Paralastor euclidias*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I [598]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Gippsland, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor eugonias* Perkins, 1914**

***Paralastor eugonias*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I [596]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor eustomus* Perkins, 1914**

***Paralastor eustomus*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I [604]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 (taxonomy); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 (taxonomy).

***Paralastor eutretus* Perkins, 1914**

***Paralastor eutretus*** Perkins, R.C.L. (1914). New species of *Paralastor*, Sauss. (Hymenoptera, Fam. Eumenidae) collected by Mr. R.E. Turner in S.W. Australia. *Ann. Mag. Nat. Hist.* (8) **14**: 235–240 [240]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor fallax* Perkins, 1914**

***Paralastor fallax*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [606]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from W.A.

Distribution: W.A.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor flaviceps* (Saussure, 1856)**

***Alastor* (*Paralastor*) *flaviceps*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [336]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (taxonomy).

***Paralastor frater* Perkins, 1914**

***Paralastor frater*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [585]. Type data: holotype, OUM \*M. adult, from Albany, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor fraternus* (Saussure, 1856)**

***Alastor* (*Paralastor*) *fraternus*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie

comprenant la Monographie des Masariens et un Supplement à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [330]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: N.S.W.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (description of male); Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor habilis* Perkins, 1914**

***Paralastor habilis*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [583]. Type data: syntypes (probable), BMNH \*adult, from N Qld.

Distribution: Qld; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor hilaris* Perkins, 1914**

***Paralastor hilaris*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [600 pl I fig 18]. Type data: syntype, BMNH \*M. adult (seen 1929 by L.F. Graham), from N Qld.

Distribution: N coastal, N.T., Qld.; only published localities Darwin and N Qld. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor icarioides* Perkins, 1914**

***Paralastor icarioides*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [621 pl I fig 2]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Townsville, Qld.

Distribution: NE coastal, Qld.; only published localities Townsville, Kuranda and Cairns. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor ignotus* Perkins, 1914**

***Paralastor ignotus*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other



Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [621]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

Distribution: SW coastal, W.A.; only published localities Swan River and Kalamunda. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor imitator* Perkins, 1914**

***Paralastor imitator*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [595 pl I fig 10]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor infernalis* (Saussure, 1856)**

***Alastor* (*Paralastor*) *infernalis*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [332]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

Distribution: NE coastal, N coastal, Qld., N.T., W.A.; only published localities Cairns, Burnside, Darwin and W.A. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (redescription); Schulthess-Rechberg, A. von (1935). Hymenoptera aus den Sundainseln und Nordaustralien (mit Ausschluss der Blattwespen, Schlupfwespen und Ameisen). *Rev. Suisse Zool.* **42**: 293–323 (distribution).

***Paralastor infimus* Perkins, 1914**

***Paralastor infimus*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [603]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Brisbane, Qld.

Distribution: NE coastal, Qld.; only published localities Brisbane and Stradbroke Is. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor insularis* (Saussure, 1856)**

***Alastor* (*Paralastor*) *insularis*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [334 pl xvi fig 3]. Type data: syntypes, BMNH \*2F. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: SW coastal, W.A.; only published locality Swan River. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (redescription).

***Paralastor lachesis* (Saussure, 1853)**

***Alastor lachesis*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [251 pl xxi figs 5, 5a]. Type data: syntypes (probable), MNHP \*F. adult, from Tas.; locality probably incorrect, see Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I.

Distribution: Tas.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (taxonomy).

***Paralastor laetus* Perkins, 1914**

***Paralastor laetus*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [585]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Fremantle, W.A.

Distribution: SW coastal, W.A.; only published localities Fremantle and Yallingup. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). New species of *Paralastor*, Sauss.

(Hymenoptera, Fam. Eumenidae) collected by Mr. R.E. Turner in S.W. Australia. *Ann. Mag. Nat. Hist.* (8) **14**: 235–240 (redescription).

***Paralastor lateritius*** (Saussure, 1867)

***Alastor (Paralastor) lateritius*** Saussure, H. de (1867). Hymenoptera. in, *Reise der österreichischen Fregatte Novara um die Erde in den Jahren 1857, 1858, 1859 unter den Befehlen des Commodore B. von Wüllerstorff-Urbair*. Zoologischer Theil. Wien : K-K Hof- und Staatsdruckerei Vol. 2(1a) 138 pp. [17]. Type data: syntypes (probable), adult whereabouts unknown, from Australia (as New Holland).

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (taxonomy).

***Paralastor leptias*** Perkins, 1914

***Paralastor leptias*** Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [620]. Type data: syntype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor mackayensis*** Perkins, 1914

***Paralastor mackayensis*** Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [607]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor maculiventris*** (Saussure, 1856)

***Alastor (Paralastor) maculiventris*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [337 pl xvi fig 2]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (redescription).

***Paralastor medius*** Perkins, 1914

***Paralastor medius*** Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [604]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor mesochlorus*** Perkins, 1914

Taxonomic decision of Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [616].

***Paralastor mesochlorus mesochlorus*** Perkins, 1914

***Paralastor mesochlorus*** Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [616]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor mesochlorus mesochloroides*** Perkins, 1914

***Paralastor mesochlorus mesochloroides*** Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [616] [described as race]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor microgonias*** Perkins, 1914

***Paralastor microgonias*** Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [596]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor mimus*** Perkins, 1914

***Paralastor mimus*** Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [594]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

Distribution: SW coastal, W.A.; type locality only (1 female "N.S.W." probably label error). Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor multicolor* Perkins, 1914**

***Paralastor multicolor*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [612 pl I figs 9, 19]. Type data: syntype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Port Darwin, N.T.

Distribution: N coastal, N.T.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor mutabilis* Perkins, 1914**

***Paralastor mutabilis*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [610 pl I fig 8]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Vic.

Distribution: Vic.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor nautarum* (Saussure, 1856)**

***Alastor* (*Paralastor*) *nautarum*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [330]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (redescription).

***Paralastor neglectus* (Saussure, 1855)**

***Odynerus* (*Parodynerus*) *neglectus*** Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [245]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130–279 (taxonomy).

***Paralastor neochromus* Perkins, 1914**

***Paralastor neochromus*** Perkins, R.C.L. (1914). New species of *Paralastor*, Sauss. (Hymenoptera, Fam. Eumenidae) collected by Mr. R.E. Turner in S.W. Australia. *Ann. Mag. Nat. Hist.* (8) **14**: 235–240 [238]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor occidentalis* Perkins, 1914**

***Paralastor occidentalis*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [598]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor odynericornis* Giordani Soika, 1961**

***Paralastor odynericornis*** Giordani Soika, A. (1961). Notulae Vespilogicae. XIII - *Paralastor* nuovi o poco noti. *Boll. Soc. Entomol. Ital.* **91**: 12–15 [14]. Type data: holotype, ZMB \*M. adult, from Marloo Station, Wurarga, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor odyneripennis* Perkins, 1914**

***Paralastor odyneripennis*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [610]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Vic.

Distribution: Vic.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor odyneroides* Perkins, 1914**

***Paralastor odyneroides*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [610]. Type data: holotype, OUM \*M. adult, from Australia.

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.



***Paralastor oloris* Perkins, 1914**

***Paralastor oloris*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [608 pl I figs 4,16]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

Distribution: SW coastal, NW coastal, W.A.; only published localities Swan River and Marloo Station, Wurarga. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1961). *Notulae Vespidologicae*. XIII - *Paralastor* nuovi o poco noti. *Boll. Soc. Entomol. Ital.* **91**: 12–15 (description of female); Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor optabilis* Perkins, 1914**

***Paralastor optabilis*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [587 pl I fig 12]. Type data: syntype, BMNH \*F. adult (seen 1929 by L.F. Graham), from N Qld.

Distribution: Qld.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor ordinarius* Perkins, 1914**

***Paralastor ordinarius*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [586]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Wimmera, Vic.

Distribution: Murray-Darling basin, Vic.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor orientalis* Perkins, 1914**

***Paralastor orientalis*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [599]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from N.S.W.

Distribution: NE coastal, N.S.W., Qld.; only published localities N.S.W., Brisbane and Bundaberg. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor pallidus* Perkins, 1914**

***Paralastor pallidus*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [584]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published locality Mackay. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor parca* (Saussure, 1853)**

***Alastor parca*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [254]. Type data: holotype, MNHP \*adult, from Australia (as New Holland).

Distribution: Vic., Tas.; only published localities Vic., Mt. Wellington, Eaglehawk Neck and Franklin. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (taxonomy, distribution); Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy); Giordani Soika, A. (1974). Prime ricerche sugli Eumenidi ipsobionti. I. Caratteristiche generali degli Eumenidi ipsobionti del globo. *Redia* **55**: 287–302 (colouration).

***Paralastor petiolatus* Schulthess-Rechberg, 1925**

***Paralastor petiolatus*** Schulthess-Rechberg, A. von (1925). Beitrag zur Kenntnis der Gattung *Alastor* Lep. (Hym. Vesp.). *Konowia* **4**: 57–65, 195–209, 257–263 [258]. Type data: holotype, GMNH \*adult, from Parramatta, N.S.W.

Distribution: SE coastal, N.S.W.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor picteti* (Saussure, 1853)**

***Alastor picteti*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [256]. Type data: syntypes (probable), GMNH \*M. adult, from Tas.; locality probably incorrect, see Perkins, R.C.L. (1914). On the

species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I.

Distribution: NE coastal, Qld., (Tas.); only published localities Cairns, Kuranda, Mackay, Bundaberg and "Tas." Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Saussure, H. de (1854–1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (description of male); Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (taxonomy, distribution).

***Paralastor placens* Perkins, 1914**

***Paralastor placens*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [592]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor plebeius* Perkins, 1914**

***Paralastor plebeius*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [611]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: S Gulfs, Vic., S.A.; only published localities Vic. and Adelaide. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor princeps* Perkins, 1914**

***Paralastor princeps*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [607]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from W.A.

Distribution: W.A.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor pseudochromus* Perkins, 1914**

***Paralastor pseudochromus*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [605 pl I fig 14]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Vic.

Distribution: SE coastal, Vic.; only published locality Melbourne. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor punctulatus* (Saussure, 1853)**

***Alastor punctulatus*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [255]. Type data: holotype, MNHP \*F. adult, from Tas.

***Alastor similis*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [256]. Type data: holotype, MNHP \*F. adult, from Australia (as New Holland).

***Alastor albocinctus*** Smith, F. (1857). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Pt. V. Vespidae pp. 1–147 London : British Museum [91]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Tas.

Taxonomic decision of Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [586].

Distribution: Murray-Darling basin, N.S.W., Tas.; only published localities Mt. Kosciusko, Mt. Wellington, Eaglehawk Neck and Hobart. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy); Giordani Soika, A. (1974). Prime ricerche sugli Eumenidi ipsobionti. I. Caratteristiche generali degli Eumenidi ipsobionti del globo. *Redia* **55**: 287–302 (colouration).

***Paralastor pusillus* (Saussure, 1856)**

***Alastor (Paralastor) pusillus*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [332 pl xvi fig 5]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from N.S.W.

Distribution: N.S.W.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (taxonomy).

***Paralastor roseotinctus* Perkins, 1914**

***Paralastor roseotinctus*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [591]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from W.A.

Distribution: SW coastal, W.A.; only published locality Swan River. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor rubroviolaceus* (Giordani Soika, 1941)**

***Odynerus (Rhynchium) rubroviolaceus*** Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130–279 [255]. Type data: lectotype, A. Giordani Soika pers. coll. \*F. adult, from Mt. Tamborine, Qld., designation by Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934–1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7–53.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1961). Notulae Vespilogicae. XIII - *Paralastor* nuovi o poco noti. *Boll. Soc. Entomol. Ital.* **91**: 12–15 (generic placement).

***Paralastor rufipes* Perkins, 1914**

***Paralastor rufipes*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [579]. Type data: holotype, BMNH \*F. adult, from N Qld.

Distribution: Qld.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor sanguineus* (Saussure, 1856)**

***Alastor (Paralastor) sanguineus*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [331]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*)

Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (redescription).

***Paralastor saussurei* Perkins, 1914**

***Paralastor saussurei*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [579]. Type data: holotype, BMNH \*F. adult, from N Qld.

Distribution: Qld.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor semirufus* Schulthess-Rechberg, 1925**

***Paralastor semirufus*** Schulthess-Rechberg, A. von (1925). Beitrag zur Kenntnis der Gattung *Alastor* Lep. (Hym. Vesp.). *Konowia* **4**: 57–65, 195–209, 257–263 [257]. Type data: holotype, NHRM \*F. adult, from Kimberley district, W.A.

Distribution: N coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor simillimus* Perkins, 1914**

***Paralastor simillimus*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [619]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay and Bundaberg. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor simplex* Perkins, 1914**

***Paralastor simplex*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [594]. Type data: holotype, BMNH \*F. adult, from Albany, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor simulator* Perkins, 1914**

***Paralastor simulator*** Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [588]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Melbourne, Vic.

Distribution: SE coastal, S Gulfs, Vic., S.A.; only published localities Melbourne and Adelaide. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli



*Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor smithii* (Saussure, 1856)**

*Alastor (Paralastor) smithii* Saussure, H. de (1856). *Études sur la Famille des Vespides. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens*. Paris : Masson 352 pp. pls i–xvi (1854–1856) [333 pl xvi fig 4]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (generic placement).

***Paralastor solitarius* Perkins, 1914**

*Paralastor solitarius* Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [600 pl I fig 6]. Type data: holotype, BMNH Hym 18.644 \*M. adult, from Bundaberg, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor subhabilis* Perkins, 1914**

*Paralastor subhabilis* Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [583]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor submersus* Turner, 1919**

*Paralastor submersus* Turner, R.E. (1919). New Australian diplopterous Hymenoptera. *Ann. Mag. Nat. Hist.* (9) **3**: 398–399 [399]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Lolworth Station, Qld.

Distribution: (Murray-Darling basin), (Lake Eyre basin), Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor subobscurus* Perkins, 1914**

*Paralastor subobscurus* Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [593]. Type data: holotype, BMNH \*M. adult, from N Qld.

Distribution: Qld; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor suboloris* Perkins, 1914**

*Paralastor suboloris* Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [608]. Type data: holotype, OUM \*M. adult, from W.A.

Distribution: W.A.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor subplebeius* Perkins, 1914**

*Paralastor subplebeius* Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [611 pl I fig 15]. Type data: syntype, BMNH \*F. adult (seen 1929 by L.F. Graham), from N Qld.

Distribution: Qld.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor subpunctulatus* Perkins, 1914**

*Paralastor subpunctulatus* Perkins, R.C.L. (1914). New species of *Paralastor*, Sauss. (Hymenoptera, Fam. Eumenidae) collected by Mr. R.E. Turner in S.W. Australia. *Ann. Mag. Nat. Hist.* (8) **14**: 235–240 [238]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy); Giordani Soika, A. (1974). Prime ricerche sugli Eumenidi ipsobionti. I. Caratteristiche generali degli Eumenidi ipsobionti del globo. *Redia* **55**: 287–302 (colouration).

***Paralastor summus* Perkins, 1914**

*Paralastor summus* Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [604]. Type data: holotype, BMNH \*F. adult, from Cairns, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor synchronus* Perkins, 1914**

*Paralastor synchronus* Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc.*

*Lond.* **1914**: 563–624 pl I [619]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay, Bundaberg and Cairns. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor tasmaniensis* (Saussure, 1853)**

*Alastor tasmaniensis* Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [253]. Type data: holotype, MNHP \*M. adult, from Tas.; locality probably incorrect, see Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I.

Distribution: NE coastal, (Tas.), Qld.; only published localities "Tas." and Brisbane. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (redescription); Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor tricarinulatus* Perkins, 1914**

*Paralastor tricarinulatus* Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [582]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Vic.

Distribution: SE coastal, Murray-Darling basin, N.S.W., Vic.; only published localities Sydney, Binnaway, Warrumbungle and Vic. Ecology: larva - sedentary, predator : adult - volant; nest in insect-borer holes in dead trees, prey larval Lepidoptera. Biological references: Schulthess-Rechberg, A. von (1925). Beitrag zur Kenntnis der Gattung *Alastor* Lep. (Hym. Vesp.). *Konowia* **4**: 57–65, 195–209, 257–263 (redescription); Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy); Smith, A.P. & Alcock, J. (1980). A comparative study of the mating systems of Australian eumenid wasp (Hymenoptera). *Z. Tierpsychol.* **53**: 41–60.

***Paralastor tricolor* Perkins, 1914**

*Paralastor tricolor* Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [590 pl I fig 5]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; only published localities Cairns, Kuranda and Mackay. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy).

***Paralastor tuberculatus* (Saussure, 1853)**

*Alastor tuberculatus* Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [253 pl xxi figs 6,6a–6b]. Type data: holotype, MNHP \*adult, from Tas.

Distribution: S Gulfs, S.A., Vic., Tas.; only published localities Adelaide, Vic. and Tas. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (distribution); Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (taxonomy); International Commission on Zoological Nomenclature (1970). Opinion 893. Eumenidae names of Saussure (Hymenoptera) : grant of availability to certain names proposed for secondary divisions of genera. *Bull. Zool. Nomen.* **26**: 187–191 (placed on Official List of Specific Names).

***Paralastor victor* Giordani Soika, 1977**

*Paralastor victor* Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [135]. Type data: holotype, SAMA \*M. adult, from Everard Park near Victory Well, S.A.

Distribution: Lake Eyre basin, S.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Paralastor viduus* Perkins, 1914**

*Paralastor viduus* Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc.*

*Lond.* **1914**: 563–624 pl I [609]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Melbourne, Vic.

Distribution: SE coastal, Vic.; only published locality Melbourne. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Paralastor vulneratus*** (Saussure, 1856)

***Alastor (Paralastor) vulneratus*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [334 pl xvi fig 7]. Type data: syntypes (probable), F. adult whereabouts unknown, from Australia (as New Holland).

Distribution: S Gulfs, S.A., Vic.; only published localities Adelaide and Vic. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (redescription, distribution).

***Paralastor vulpinus*** (Saussure, 1856)

Taxonomic decision of Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [587].

***Paralastor vulpinus vulpinus*** (Saussure, 1856)

***Alastor (Paralastor) vulpinus*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [335 pl xvi fig 6]. Type data: syntypes (probable), F. adult whereabouts unknown, from Australia.

Distribution: SE coastal, S Gulfs, Vic., S.A.; only published localities Croydon and Adelaide. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera. Biological references: Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I (redescription, distribution).

***Paralastor vulpinus excisus*** Perkins, 1914

***Paralastor vulpinus excisus*** Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [587] [described as race]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia (Vic. or N.S.W.).

Distribution: SE coastal, N.S.W., Vic.; only published localities Mittagong, Port Stephen, Melbourne, Cumberland and Woodford. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Paralastor xanthochromus*** Perkins, 1914

***Paralastor xanthochromus*** Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [614]. Type data: holotype, BMNH \*F. adult, from Cairns, Qld.

Distribution: NE coastal, Qld.; only published localities Cairns, (Townsville). Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Paralastor xanthus*** Giordani Soika, 1977

***Paralastor xanthus*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [134]. Type data: holotype, RMNH \*F. adult, from Sturt Creek (Kimberley), W.A.

Distribution: N coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Paralastor xerophilus*** Perkins, 1914

Taxonomic decision of Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [134].

***Paralastor xerophilus xerophilus*** Perkins, 1914

***Paralastor xerophilus*** Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [591]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Hermannsburg, N.T.

Distribution: Lake Eyre basin, N.T.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Paralastor xerophilus meesi*** Giordani Soika, 1977

***Paralastor xerophilus meesi*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [134]. Type data: holotype, RMNH \*F. adult, from Carranya, Kimberley, W.A.

Distribution: N coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey larval Lepidoptera.

***Parifodynerus*** Giordani Soika, 1962

***Parifodynerus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202



[167]. Type species *Parifodynerus parificus* Giordani Soika, 1962 by original designation.

***Parifodynerus alariformis*** (Saussure, 1856)

***Odynerus alariformis*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i-xvi (1854-1856) [282 pl 14 fig 6]. Type data: holotype, MNHP \*F. adult, from Australia (as New Holland).

***Odynerus (Stenodyneroides) subalaris*** Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130-279 [248]. Type data: holotype, BMNH \*F. adult, from Brisbane, Qld.

Taxonomic decision of Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [169].

Distribution: NE coastal, Murray-Darling basin, Qld., N.S.W. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130-279 (description of male, distribution, as *Odynerus (Stenodyneroides) alariformis*); Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934-1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7-53 (taxonomy); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109-138 (distribution).

***Parifodynerus parificus*** Giordani Soika, 1962

***Parifodynerus parificus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [168]. Type data: holotype, BMNH \*F. adult, from Australia.

Distribution: SE coastal, Vic.; only published locality Melbourne. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Parodynerus*** Saussure, 1855

***Parodynerus*** Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i-xvi (1854-1855) [245] [proposed for secondary division of *Odynerus* Latreille, 1802; placed on Official List of Generic Names in Zoology, see International Commission on Zoological Nomenclature (1970). Opinion 893. Eumenidae names of Saussure (Hymenoptera) : grant of availability to certain names proposed for secondary divisions of genera. *Bull. Zool. Nomen.* **26**: 187-191]. Publication date established from Griffin, F.J. (1939). On the dates of publication of Saussure (H. de) : *Études sur la famille des Vespides* 1-3, 1852-1858. *J. Soc. Bibliogr. Nat. Hist.* **1**: 211-212. Type species *Odynerus bizonatus* Boisduval, 1835 (= *Vespa*

*bicincta* Fabricius, 1781) by subsequent designation, see Giordani Soika, A. (1958). Biogeografia, evoluzione e sistematica dei Vespidi solitari della Polinesia meridionale. *Boll. Mus. Civ. Stor. Nat. Venezia* **10**: 183-221.

This group is also found in the Pacific islands, see Giordani Soika, A. (1958). Biogeografia, evoluzione e sistematica dei Vespidi solitari della Polinesia meridionale. *Boll. Mus. Civ. Stor. Nat. Venezia* **10**: 183-221.

***Parodynerus bicincta*** (Fabricius, 1781)

***Vespa bicincta*** Fabricius, J.C. (1781). *Species insectorum exhibentes eorum differentias specificas, synonyma auctorum, loca natalia, metamorphosin adiectis observationibus, descriptionibus*. Hamburgi et Kilonii Vols i-ii [465]. Type data: holotype, BMNH \*F. adult, from Cap. bon. sp.; this locality is erroneous, the species is found on Pacific islands, see Bequaert, J. (1918). A revision of the Vespidae of the Belgian Congo based on the collection of the American Museum Congo expedition, with a list of Ethiopian diplopterous wasps. *Bull. Am. Mus. Nat. Hist.* **39**: 1-384.

***Odynerus bizonatus*** Boisduval, J.B.A.D. de (1835). *Faune Entomologique de l'Océan Pacifique, Découvertes de l'Astrolabe exécuté pendant les années 1826-29, sous le commandement de M. J. Dumont d'Urville*. 2 vols vii 716 pp. Paris : Tastu [658 pl 12 fig 5]. Type data: syntypes (probable), MNHP \*adult, from Tonga Is., see Bequaert, J. (1928). The diplopterous wasps of Fabricius, in the Banksian collection at the British Museum. *Bull. Brooklyn Entomol. Soc.* **23**: 53-63.

Taxonomic decision of Smith, F. (1857). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Pt. V. Vespidae pp. 1-147 London : British Museum [63].

Distribution: Qld.; record doubtful, also Pacific islands of Samoa, Tonga, Marquesas, Fiji, New Caledonia, Society Is. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Saussure, H. de (1852-1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i-xx (Pacific islands and New Holland as *Odynerus bizonatus*); Bequaert, J. (1928). The diplopterous wasps of Fabricius, in the Banksian collection at the British Museum. *Bull. Brooklyn Entomol. Soc.* **23**: 53-63 (taxonomy); Giordani Soika, A. (1943). Le specie indo-australiane del genere *Pachymenes* (Hym. Vespidae). *Mem. Soc. Entomol. Ital.* **22**: 102-117 (taxonomy, Australian record); Giordani Soika, A. (1958). Biogeografia, evoluzione e sistematica dei Vespidi solitari della Polinesia meridionale. *Boll. Mus. Civ. Stor. Nat. Venezia* **10**: 183-221 (taxonomy, generic

placement); Baltazar, C.R. (1966). A catalogue of Philippine Hymenoptera (with a bibliography, 1758–1963). *Pac. Insects Monogr.* 8: 1–488 (distribution); International Commission on Zoological Nomenclature (1970). Opinion 893. Eumenidae names of Saussure (Hymenoptera) : grant of availability to certain names proposed for secondary divisions of genera. *Bull. Zool. Nomen.* 26: 187–191 (*Odynerus bizonatus* placed on Official List of Specific Names).

***Pseudabispa* van der Vecht, 1960**

***Pseudabispa* van der Vecht, J. (1960).** On *Abispa* and some other Eumenidae from the Australian region (Hymenoptera, Vespoidea). *Nova Guinea Zool.* 6: 91–115 [102]. Type species *Odynerus abispoides* Perkins, 1912 by original designation.

This group is also found in New Guinea, see van der Vecht, J. (1960). On *Abispa* and some other Eumenidae from the Australian region (Hymenoptera, Vespoidea). *Nova Guinea Zool.* 6: 91–115.

***Pseudabispa confusa* van der Vecht, 1960**

***Pseudabispa confusa* van der Vecht, J. (1960).** On *Abispa* and some other Eumenidae from the Australian region (Hymenoptera, Vespoidea). *Nova Guinea Zool.* 6: 91–115 [104]. Type data: holotype, RIB \*F. adult, from N.S.W.

Distribution: NE coastal, Qld., N.S.W.; only published localities Mackay, (Cape York), N.S.W., also New Guinea. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Pseudabispa ephippioides* van der Vecht, 1960**

***Pseudabispa ephippioides* van der Vecht, J. (1960).** On *Abispa* and some other Eumenidae from the Australian region (Hymenoptera, Vespoidea). *Nova Guinea Zool.* 6: 91–115 [103]. Type data: holotype, MCG \*M. adult, from Australia.

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57–202 (taxonomy).

***Pseudabispa paragioides* (Meade-Waldo, 1910)**

***Abispa paragioides* Meade-Waldo, G. (1910).** New species of Diptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (8) 5: 30–51 [49]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Port Darwin, N.T.

Distribution: NE coastal, N coastal, Qld., N.T.; only published localities Cooktown and Port Darwin. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: van der Vecht, J. (1960). On *Abispa*

and some other Eumenidae from the Australian region (Hymenoptera, Vespoidea). *Nova Guinea Zool.* 6: 91–115 (generic placement).

***Pseudalastor* Giordani Soika, 1962**

***Pseudalastor* Giordani Soika, A. (1962).** Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57–202 [131]. Type species *Odynerus concolor* Saussure, 1853 by original designation.

This group is also found in New Guinea, see van der Vecht, J. (1981). Indo-Australian solitary wasps. *Proc. K. Ned. Akad. Wet. (c)* 84: 443–464.

***Pseudalastor anguloides* Giordani Soika, 1962**

***Pseudalastor anguloides* Giordani Soika, A. (1962).** Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57–202 [138]. Type data: syntypes, ZMB \*2F., 3M. adult, from Adelaide, S.A.

Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Pseudalastor cavifemur* Giordani Soika, 1962**

***Pseudalastor cavifemur* Giordani Soika, A. (1962).** Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57–202 [139]. Type data: holotype, BMNH \*M. adult, from Merredin, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Pseudalastor concolor* (Saussure, 1853)**

Taxonomic decision of Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* 55: 109–138 [122].

***Pseudalastor concolor concolor* (Saussure, 1853)**

***Odynerus (Leionotus) concolor* Saussure, H. de (1853).** *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [202 pl xviii fig 7]. Type data: holotype, MNHP \*F. adult, from Tas.

Distribution: NE coastal, Murray-Darling basin, Qld., N.S.W., Tas., W.A.; only published localities Brisbane, Narrabri, Biniguy, Tas. and W.A. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57–202 (redescription, generic

placement); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (distribution).

***Pseudalastor concolor rapax*** Giordani Soika, 1977

***Pseudalastor concolor rapax*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [122]. Type data: holotype, NMV \*F. adult, from Caldwell, N.S.W.

Distribution: Murray-Darling basin, N.S.W., Vic.; only published localities Caldwell and Gunbower. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Pseudalastor metathoracicus*** (Saussure, 1855)

***Odynerus metathoracicus*** Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [286]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

***Odynerus (Ancistroceroides) sanguinolentus*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [221]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Australia.

Taxonomic decision of Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [134].

Distribution: Murray-Darling basin, S Gulfs, N coastal, N.S.W., Vic., S.A., N.T.; only published localities Caldwell, Hattah, Adelaide and Darwent Creek. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (distribution).

***Pseudalastor superbis*** Giordani Soika, 1977

***Pseudalastor superbis*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [124]. Type data: holotype, NMV \*F. adult, from Kuranda, Qld.

Distribution: NE coastal, N Gulf, Qld., N.T.; only published localities Kuranda and Borrooloola. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Pseudalastor tridentatus*** (Schulthess-Rechberg, 1935)

Taxonomic decision of Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [123].

***Pseudalastor tridentatus tridentatus*** (Schulthess-Rechberg, 1935)

***Alastor (Paralastor) tridentatus*** Schulthess-Rechberg, A. von (1935). Hymenoptera aus den Sundainseln und Nordaustralien (mit Ausschluss der Blattwespen, Schlupfwespen und Ameisen). *Rev. Suisse Zool.* **42**: 293–323 [302]. Type data: syntypes, NHMB \*F. adult, from Burnside, N.T.

Distribution: NE coastal, N coastal, Qld., N.T. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (redescription, generic placement); Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934–1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7–53 (description of male); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (distribution).

***Pseudalastor tridentatus paganus*** Giordani Soika, 1977

***Pseudalastor tridentatus paganus*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [123]. Type data: holotype, BMNH \*F. adult, from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Pseudalastor tridentatus septentrionalis*** Giordani Soika, 1977

***Pseudalastor tridentatus septentrionalis*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [123]. Type data: holotype, BMNH \*F. adult, from Port Darwin, N.T.

Distribution: N coastal, N.T.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Pseudalastor tridentatus transgrediens*** Giordani Soika, 1977

***Pseudalastor tridentatus transgrediens*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi



australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [123]. Type data: holotype, SAMA \*F. adult, from Mornington Is., Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Pseudepipona* Saussure, 1856**

***Pseudepipona*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [309] [proposed for secondary division of *Odynerus* Latreille, 1802; placed on Official List of Generic Names in Zoology, see International Commission on Zoological Nomenclature (1970). Opinion 893. Eumenidae names of Saussure (Hymenoptera) : grant of availability to certain names proposed for secondary divisions of genera. *Bull. Zool. Nomen.* **26**: 187–191]. Publication date established from Griffin, F.J. (1939). On the dates of publication of Saussure (H. de) : *Études sur la famille des Vespides* 1–3, 1852–1858. *J. Soc. Bibliogr. Nat. Hist.* **1**: 211–212. Type species *Odynerus herrichii* Saussure, 1856 by monotypy.

This group is also found in the Palaearctic Region, see Richards, O.W. (1980). Scolioidea, Vespoidea and Sphecoidea. Hymenoptera, Aculeata. *Handbk. Ident. Br. Insects* **6**(3b): 1–118.

***Pseudepipona alaris* (Saussure, 1853)**

***Odynerus (Leionotus) alaris*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [203 pl xviii fig 5]. Type data: lectotype, MNHP \*F. adult, from Tas., designation by Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202.

Distribution: NE coastal, SE coastal, Qld., N.S.W., Vic., Tas. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (redescription, distribution, generic placement).

***Pseudepipona angulata* (Saussure, 1856)**

Taxonomic decision of Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [107].

***Pseudepipona angulata angulata* (Saussure, 1856)**

***Odynerus angulatus*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la

Monographie des Eumeniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [284 pl xiv fig 7]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

Distribution: NE coastal, SE coastal, Murray-Darling basin, S Gulfs, Lake Eyre basin, SW coastal, W plateau, NW coastal, Qld., N.S.W., Vic., S.A., W.A., N.T. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130–279 (distribution as *Odynerus (Rhynchium) angulatus*); Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (redescription, generic placement).

***Pseudepipona angulata alexandriae* (Giordani Soika, 1941)**

***Odynerus (Rhynchium) angulatus alexandriae*** Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130–279 [255] [described as variety]. Type data: lectotype, BMNH \*F. adult, from Alexandria, N.T., designation by Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934–1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7–53.

Distribution: N coastal, W plateau, N Gulf, (Murray-Darling basin), W.A., N.T., (Vic.); only published localities Ord River, Meekatharra, NW coast, Alexandria and (Bamawn). Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (redescription, generic placement).

***Pseudepipona aspra* Giordani Soika, 1962**

***Pseudepipona (Pseudepipona) aspra*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [85]. Type data: holotype, QM T5978 \*adult, from Brisbane, Qld.

Distribution: NE coastal, Qld., N.S.W., Vic.; only published localities Brisbane, Mackay, N.S.W. and Vic. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (distribution).

***Pseudepipona chartergiformis* Giordani Soika, 1962**

***Pseudepipona chartergiformis*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e

della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [112]. Type data: holotype, BMNH (probable) \*F. adult, from Australia.

Distribution: NE coastal, Qld.; only published localities Cairns and Kuranda. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Pseudepipona clypalaris*** Giordani Soika, 1962

***Pseudepipona clypalaris*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [111]. Type data: holotype, ANIC F. adult, from Yass, N.S.W. (wrongly published as S.A.).

Distribution: Murray-Darling basin, N.S.W.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Pseudepipona pallida*** Giordani Soika, 1977

***Pseudepipona pallida*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [115]. Type data: holotype, BMNH \*F. adult, from 56 mi W Barnato, N.S.W.

Distribution: Murray-Darling basin, Lake Eyre basin, NW coastal, N.S.W., S.A., W.A.; only published localities near Barnato, Everard Park Station and Carnarvon area. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Pseudepipona succincta*** (Saussure, 1853)

Taxonomic decision of Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [115].

***Pseudepipona succincta succincta*** (Saussure, 1853)

***Odynerus (Leionotus) succinctus*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [204]. Type data: holotype, probably MNHP or MCG \*F. adult, from Australia (as New Holland or Tas.).

***Odynerus balyi*** Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Euméniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [283 pl xiv fig 6]. Type data: syntypes (probable), F. adult whereabouts unknown, from Australia (as New Holland).

Distribution: NE coastal, SE coastal, Murray-Darling basin, N coastal, Qld., N.S.W., N.T., (Tas.). Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1941). Studi sui

Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130–279 (description of male as *Odynerus (Rhynchium) succinctus*); Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 (redescription, generic placement); Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi d'Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934–1960. *Boll. Mus. Civ. Stor. Nat. Venezia* **24**: 7–53 (taxonomy).

***Pseudepipona succincta purgata*** Giordani Soika, 1977

***Pseudepipona succincta purgata*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [115]. Type data: holotype, WAM \*adult not found, from Landor Station, W.A.

Distribution: NW coastal, N coastal, W.A., N.T.; only published localities Landor Station and Port Darwin. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Pseudozethus*** Perkins, 1914

***Pseudozethus*** Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [622]. Type species *Pseudozethus australensis* Perkins, 1914 by monotypy.

***Pseudozethus australensis*** Perkins, 1914

***Pseudozethus australensis*** Perkins, R.C.L. (1914). On the species of *Alastor (Paralastor)* Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563–624 pl I [623]. Type data: holotype, BMNH \*M. adult, from N Qld.

Distribution: Qld.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 (taxonomy).

***Pseudozethus confusus*** Giordani Soika, 1969

***Pseudozethus confusus*** Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* **19**: 25–100 [46]. Type data: holotype, A. Giordani Soika pers. coll. \*F. adult, from S.A.

Distribution: S Gulfs, S.A.; only published locality Orroroo. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Pseudozethus ephippium*** (Saussure, 1855)

***Discoelius ephippium*** Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la

Monographie des Eumeniens. Paris : Masson 352 pp. pls i-xvi (1854-1856) [125 pl vi fig 8]. Type data: holotype, MNHP \*M. adult, from Australia (as New Holland).

Distribution: NE coastal, SE coastal, Qld., N.S.W.; only published localities Wide Bay and Dorriggo. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* 19: 25-100 (redescription, distribution).

***Pseudozethus insignis* (Saussure, 1856)**

*Discoelius insignis* Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Eumeniens. Paris : Masson 352 pp. pls i-xvi (1854-1856) [126]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

Distribution: NE coastal, Qld., N.S.W.; only published localities Peak Downs and N.S.W. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Smith, F. (1873). Natural history notices. Insects, Hymenoptera Aculeata. pp. 456-463 pls xliii-xlv in Brenchley, J.B. *Jottings During the Cruise of H.M.S. Curaçoa among the South Sea Islands in 1865*. London : Longmans, Green & Co. (illustration); Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* 2: 130-279 (taxonomy as *Macrocalymma insignis*); Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* 19: 25-100 (redescription, generic placement).

***Pseudozethus pseudospinosus* Giordani Soika, 1969**

*Pseudozethus pseudospinosus* Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* 19: 25-100 [51]. Type data: holotype, AM F. adult, from Sydney, N.S.W.

Distribution: SE coastal, Murray-Darling basin, N.S.W., A.C.T., Vic., S.A.; only published localities Sydney, Hornsby, Canberra, Melton and S.A. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* 55: 109-138 (distribution as *Deuterodiscoelius pseudospinosus*).

***Pseudozethus spinosus* (Saussure, 1855)**

*Discoelius spinosus* Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la

Monographie des Eumeniens. Paris : Masson 352 pp. pls i-xvi (1854-1856) [125]. Type data: holotype, F. adult whereabouts unknown, from N.S.W.

Distribution: N.S.W.; no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* 19: 25-100 (generic placement).

***Pseudozethus verreauxii* (Saussure, 1852)**

*Discoelius verreauxii* Saussure, H. de (1852). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i-xx (1852-1853) [26 pl ix fig 4a-c]. Type data: holotype, MNHP \*F. adult, from Tas.

Distribution: NE coastal, SE coastal, Murray-Darling basin, Qld., N.S.W., Vic., S.A., Tas. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1969). Revisione dei Discoeliinae Australiani. *Boll. Mus. Civ. Stor. Nat. Venezia* 19: 25-100 (redescription, generic placement); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* 55: 109-138 (distribution as *Deuterodiscoelius verreauxi*).

***Rhynchium* Spinola, 1806**

*Rhynchium* Spinola, M. (1806). *Insectorum Liguria* species novae aut rariores, quae in agro ligustico nuper detexit, descripsit et iconibus illustravit. Genoa : Gravier Vol. 1 159+17 pp. [84] [Spinola originally spelled the genus as *Rygchium*; this was suppressed by International Commission on Zoological Nomenclature (1965). Opinion 747. *Rygchium* Spinola, 1806 (Insecta, Hymenoptera): validation of emendation to *Rhynchium*. *Bull. Zool. Nomen.* 22: 186-187 which validated the emendation *Rhynchium* of Billberg, G.J. (1820). *Enumeratio Insectorum in Museo Billberg*. Stockholm : Gadel 138 pp.]. Type species *Rygchium europaeum* Spinola, 1806 (= *Vespa oculata* Fabricius, 1781) by monotypy.

This group is also found in the Palaearctic and Oriental Regions (tropics and subtropics of Old World), see van der Vecht, J. (1963). Studies on Indo-Australian and east-Asiatic Eumenidae (Hymenoptera, Vespoidea). *Zool. Verh.* 60: 1-116.

***Rhynchium atrum* Saussure, 1852**

*Rhynchium atrum* Saussure, H. de (1852). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson



286 pp. pls i-xx (1852-1853) [109]. Type data: neotype, USNM \*F. adult, from Manila, Philippines, designation by van der Vecht, J. (1968). The *Rhynchium* species of the Philippine Islands (Hymenoptera, Eumenidae). *Zool. Meded.* **42**: 255-259,

Distribution: doubtfully Australian, in Philippines and other parts of the Oriental Region. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Baltazar, C.R. (1966). A catalogue of Philippine Hymenoptera (with a bibliography, 1758-1963). *Pac. Insects Monogr.* **8**: 1-488 (distribution includes Australia); van der Vecht, J. (1968). The *Rhynchium* species of the Philippine Islands (Hymenoptera, Eumenidae). *Zool. Meded.* **42**: 255-259 (taxonomy).

#### ***Rhynchium australense* Perkins, 1914**

*Rhynchium australense* Perkins, R.C.L. (1914). On the species of *Alastor* (*Paralastor*) Sauss. and some other Hymenoptera of the family Eumenidae. *Proc. Zool. Soc. Lond.* **1914**: 563-624 pl I [623]. Type data: holotype, BMNH \*M. adult, from N Qld.

Distribution: no locality specified. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

#### ***Rhynchium magnificum* Smith, 1869**

*Rhynchium magnificum* Smith, F. (1869). Descriptions of new genera and species of exotic Hymenoptera. *Trans. Entomol. Soc. Lond.* **1869**: 301-311 pl vi [310]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from NW Australia.

Distribution: NE coastal, NW coastal, Qld., W.A.; only published localities Townsville and Nicol Bay. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Smith, F. (1873). Natural history notices. Insects, Hymenoptera Aculeata. pp. 456-463 pls xliii-xlv in Brenchley, J.B. *Jottings During the Cruise of H.M.S. Curaçoa among the South Sea Islands in 1865*. London : Longmans, Green & Co. (illustration); Froggatt, W.W. (1892). Catalogue of the described Hymenoptera of Australia. *Proc. Linn. Soc. N.S.W.* (2) **7**: 205-248 (locality); Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* **2**: 130-279 (taxonomy as *Odynerus* (*Rhynchium*) *haemorrhoidalis* var. *magnificus*).

#### ***Rhynchium mirabile* Saussure, 1852**

*Ryechium mirabile* Saussure, H. de (1852). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson

286 pp. pls i-xx (1852-1853) [106 pl xiv fig 5]. Type data: holotype, MNHP \*F. adult, from Tas. (locality probably incorrect).

*Rhynchium rothi* Kirby, W.F. (1885). in Roth, H.L. Notes on the habits of some Australian Hymenoptera Aculeata. (With description of a new species by W.F. Kirby). *J. Linn. Soc. Zool.* **18**: 324-326 [324]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Taxonomic decision of Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57-202 [200].

Distribution: NE coastal, N coastal, Qld., W.A., (Tas.); only published localities Mackay, Torres Strait, Moreton Bay, Ord River, also on Aru and Key IIs. and New Pomerania. Ecology: larva - sedentary, predator : adult - volant; mud-nest, prey larval Lepidoptera. Biological references: Smith, F. (1864). Notes on the geographical distribution of the aculeate Hymenoptera collected by Mr. A.R. Wallace in the eastern archipelago. *J. Linn. Soc. Lond. Zool.* **7**: 109-145 (distribution); Roth, H.L. (1885). Notes on the habits of some Australian Hymenoptera Aculeata. (With description of a new species by W.F. Kirby). *J. Linn. Soc. Zool.* **18**: 318-328 (biology as *Rhynchium rothi*); Tillyard, R.J. (1926). *The Insects of Australia and New Zealand*. Sydney : Angus & Robertson 560 pp. (plate 21); Cheesman, L.E. (1954). A new species of *Odynerus*, subgen. *Rhygchium* (Eumeninae), from the Loyalty Islands. *Ann. Mag. Nat. Hist.* (12) **7**: 385-390 (redescription as *Odynerus* (*Rhygchium*) *rothi*).

#### ***Rhynchium nigrolimbatus* Bingham, 1912**

*Rhynchium nigrolimbatus* Bingham, C.T. (1912). South African and Australian Aculeate Hymenoptera in the Oxford Museum. *Trans. Entomol. Soc. Lond.* **1912**: 375-383 [380]. Type data: holotype, OUM \*F. adult, from Towranna Plains, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

#### ***Rhynchium rufipes* (Fabricius, 1775)**

*Vespa rufipes* Fabricius, J.C. (1775). *Systema Entomologiae*, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus. Flensburgi et Lipsiae : Kortii xxvii 832 pp. [367]. Type data: holotype, BMNH \*F. adult, from islands of the Pacific Ocean.

Distribution: no precise locality, islands of Pacific Ocean, Loo-choo, Samoa, Fiji and Rarotonga. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Cheesman, L.E. (1928). A contribution

towards the insect fauna of French Oceania. Part II. *Ann. Mag. Nat. Hist.* (10) 1: 169–194 (distribution includes Australia).

***Rhynchium superbum* Saussure, 1852**

***Rygius superbum*** Saussure, H. de (1852). *Études sur la Famille des Vespides*. 1. Monographie des guêpes solitaires, ou de la tribu des Euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au Manuel de Lepeletier de Saint Fargeau. Paris : Masson 286 pp. pls i–xx (1852–1853) [113]. Type data: holotype, MNHP \*F. adult, from Australia (as New Holland).

Distribution: NE coastal, Qld.; only published locality Thursday Is., also on New Guinea, Aru and Key Is. and East Indies. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Smith, F. (1864). Notes on the geographical distribution of the aculeate Hymenoptera collected by Mr. A.R. Wallace in the eastern archipelago. *J. Linn. Soc. Lond. Zool.* 7: 109–145 (distribution); Schulz, W.A. (1904). Ein Beitrag zur Kenntnis der papuanischen Hymenopteren-Fauna. *Berl. Entomol. Z.* 49: 209–239 (taxonomy as *Rhynchium mirabile superbum*); Cameron, P. (1906). On the Malay fossorial Hymenoptera and Vespidae of the Museum of the R. Zool. Soc. "Natura artis magistra" at Amsterdam. *Tijdschr. Entomol.* 48: 48–78 (taxonomy, distribution); Cockerell, T.D.A. (1930). The bees of Australia. *Aust. Zool.* 6: 137–156 (distribution).

***Stenodyneriellus* Giordani Soika, 1962**

***Stenodyneriellus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57–202 [71]. Type species *Stenodyneriellus turneriellus* Giordani Soika, 1962 by original designation.

***Stenodyneriellus bicoloratus* (Saussure, 1856)**

***Odynerus bicoloratus*** Saussure, H. de (1856). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplement à la Monographie des Euméniens. Paris : Masson 352 pp. pls i–xvi (1854–1856) [281]. Type data: holotype, BMNH Hym 18.339 \*F. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

Distribution: NE coastal, SE coastal, Murray-Darling basin, S Gulfs, Qld., N.S.W., Vic., S.A. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57–202 (redescription, generic placement); Giordani Soika, A. (1977). Contributo

alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* 55: 109–138 (distribution).

***Stenodyneriellus brisbanensis* Giordani Soika, 1962**

***Stenodyneriellus brisbanensis*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57–202 [75]. Type data: holotype, BMNH \*adult, from Brisbane, Qld.

Distribution: NE coastal, SE coastal, Murray-Darling basin, Lake Eyre basin, S Gulfs, Qld., N.S.W., Vic., S.A., N.T. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* 55: 109–138 (distribution).

***Stenodyneriellus carnarvonensis* Giordani Soika, 1977**

***Stenodyneriellus carnarvonensis*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* 55: 109–138 [113]. Type data: holotype, NMV \*M. adult, from Carnarvon, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Stenodyneriellus darnleyensis* Giordani Soika, 1977**

***Stenodyneriellus darnleyensis*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* 55: 109–138 [113]. Type data: holotype, BMNH \*M. adult, from Darnley Is., Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Stenodyneriellus novempunctatus* Giordani Soika, 1977**

***Stenodyneriellus novempunctatus*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* 55: 109–138 [110]. Type data: holotype, NMV \*F. adult, from Cheshunt, Vic.

Distribution: SE coastal, Murray-Darling basin, Vic.; only published localities Cheshunt, Croydon, Gippsland, Healesville and Woodend. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Stenodyneriellus pseudancistrocerus*** (Giordani Soika, 1962)

***Pseudonortonia pseudancistrocerus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [69]. Type data: holotype, BMNH \*F. adult, from Mackay, Qld.

Distribution: NE coastal, SE coastal, S Gulfs, Qld., N.S.W., S.A. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (distribution, generic placement).

***Stenodyneriellus punctatissimus*** Giordani Soika, 1977

***Stenodyneriellus punctatissimus*** Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 [111]. Type data: holotype, NMV \*F. adult, from Westwood, Qld.

Distribution: NE coastal, Murray-Darling basin, Qld.; only published localities Westwood and Mt. Emlyn. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Stenodyneriellus spinosiusculus*** Giordani Soika, 1962

***Stenodyneriellus spinosiusculus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [74]. Type data: holotype, QM T5970 \*M. adult, from Brisbane, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (description of female).

***Stenodyneriellus tricoloratus*** Giordani Soika, 1962

***Stenodyneriellus tricoloratus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [78]. Type data: holotype, SAMA \*F. adult, from Port Douglas, Qld.

Distribution: NE coastal, Qld. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (description of male, distribution).

***Stenodyneriellus turneriellus*** Giordani Soika, 1962

***Stenodyneriellus turneriellus*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [73]. Type data: holotype, BMNH \*adult, from Mackay, Qld.

Distribution: NE coastal, SE coastal, N coastal, Vic., Qld., N.T.; only published localities Mackay, Ayr, Warburton and Darwin. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (distribution).

***Stenodyneriellus yanchepensis*** (Giordani Soika, 1962).

Taxonomic decision of Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [115].

***Stenodyneriellus yanchepensis yanchepensis*** (Giordani Soika, 1962)

***Australodynerus yanchepensis*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [121]. Type data: holotype, BMNH \*F. adult, from Yanchep, W.A.

Distribution: SW coastal, W.A.; only published localities Yanchep, Perth and Kalamunda. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (taxonomy).

***Stenodyneriellus yanchepensis nigrithorax*** (Giordani Soika, 1962)

***Australodynerus yanchepensis nigrithorax*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* **14**: 57–202 [122]. Type data: syntypes, ZMB \*4M. adult, from Adelaide, S.A.

Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* **55**: 109–138 (taxonomy).

***Subancistrocerus*** Saussure, 1855

***Subancistrocerus*** Saussure, H. de (1855). *Études sur la Famille des Vespides*. Troisième Partie comprenant la Monographie des Masariens et un Supplément à la Monographie des Eumeniens. Paris : Masson 352 pp. pls



i-xvi (1854-1856) [206] [proposed for secondary division of *Ancistrocerus* Wesmael, 1836; placed on Official List of Generic Names in Zoology, see International Commission on Zoological Nomenclature (1970). Opinion 893. Eumenidae names of Saussure (Hymenoptera) : grant of availability to certain names proposed for secondary divisions of genera. *Bull. Zool. Nomen.* 26: 187-191]. Publication date established from Griffin, F.J. (1939). On the dates of publication of Saussure (H. de) : Études sur la famille des Vespidae 1-3, 1852-1858. *J. Soc. Bibliogr. Nat. Hist.* 1: 211-212. Type species *Odynerus sichellii* Saussure, 1855 by subsequent designation, see Bequaert, J. (1925). The genus *Ancistrocerus* in North America, with a partial key to the species. *Trans. Am. Entomol. Soc.* 51: 57-117.

This group is also found in the Oriental and Neotropical Regions, see Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* 2: 130-279.

***Subancistrocerus monsticornis*** (Giordani Soika, 1941)

***Ancistrocerus (Subancistrocerus) monsticornis*** Giordani Soika, A. (1941). Studi sui Vespidi solitari. *Boll. Soc. Veneziana Stor. Nat.* 2: 130-279 [241]. Type data: lectotype, BMNH \*M. adult, from Mackay, Qld., designation by Giordani Soika, A. (1973). Designazione di lectotipi ed elenco dei tipi di Eumenidi, Vespidi e Masaridi da me descritti negli anni 1934-1960. *Boll. Mus. Civ. Stor. Nat. Venezia* 24: 7-53.

Distribution: NE coastal, N coastal, Qld., N.T. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57-202 (redescription, generic placement); Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* 55: 109-138 (distribution).

***Syneuodynerus*** Blüthgen, 1951

***Syneuodynerus*** Blüthgen, P. (1951). Die *Euodynerus*-Arten des Balkans (Hym. Vespidae Eumeninae). *Boll. Soc. Entomol. Ital.* 81: 66-76 [75] [proposed with subgeneric rank in *Euodynerus* Dalla

Torre, 1904]. Type species *Odynerus egregius* Herrich-Schaeffer, 1839 by original designation.

This group is also found in the Palaearctic Region, see van der Vecht, J. & Fischer, F.C.J. (1972). Palearctic Eumenidae. *Hymenopterorum Catalogus* 8: 1-199.

***Syneuodynerus aurantiopilosellus*** (Giordani Soika, 1962)

***Pseudepipona (Syneuodynerus) aurantiopilosella*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57-202 [102]. Type data: holotype, SAMA \*F. adult, from Birthday Well, Cariewerloo (as Birthday Carlewerloo), S.A.

Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

***Syneuodynerus longebispinosus*** (Giordani Soika, 1962)

***Pseudepipona (Syneuodynerus) longebispinosa*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57-202 [101]. Type data: holotype, BMNH \*F. adult, from Adelaide, S.A.

Distribution: SE coastal, Murray-Darling basin, S Gulfs, N.S.W., Vic., S.A. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera. Biological references: Giordani Soika, A. (1977). Contributo alla conoscenza degli Eumenidi australiani (Hymenoptera). *Mem. Soc. Entomol. Ital.* 55: 109-138 (description of male, distribution).

***Syneuodynerus occidentatus*** (Giordani Soika, 1962)

***Pseudepipona (Syneuodynerus) occidentata*** Giordani Soika, A. (1962). Gli *Odynerus* sensu antiquo del continente australiano e della Tasmania. *Boll. Mus. Civ. Stor. Nat. Venezia* 14: 57-202 [102]. Type data: holotype, BMNH (probable) \*F. adult, from Yanchep, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey larval Lepidoptera.

# VESPIDAE

## INTRODUCTION

This family, the papernest wasps, contains small to quite large, social wasps. There are some 50 species and subspecies from two genera native to Australia. The greatest diversity is in north Queensland; no species occur naturally in Tasmania or in the south of Western Australia. Two introduced species of a third genus, *Vespula*, have become established and are spreading within eastern Australia. They cause concern on medical grounds (there is a risk of severe allergic reaction to the sting) and on economic grounds (damage to hives of honey bees and to fruit). One species of *Vespula* is established in Tasmania and one eastern Australian and one European species of *Polistes* in Western Australia.

The "paper" nests, constructed from masticated plant fibres, are founded by one or several females. As adults remain after emergence, the number of individuals in each nest increases with age, up to several hundreds in *Ropalidia* and *Polistes*, to many thousands for *Vespula* in Tasmania. Adults are often collected on flowers, and larvae are fed progressively on masticated insects, mainly larval Lepidoptera.

### References

Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132

Evans, H.E. & West Eberhard, M.J. (1970). *The Wasps*. Ann Arbor : Univ. Michigan Press 265 pp.

Breed, M.D., Michener, C.D. & Evans, H.E. (eds.) (1982). *The Biology of Social Insects*. Proceedings of the Ninth Congress of the International Union for the study of social Insects, Boulder, Colorado, August 1982. Boulder : Westview Press 419 pp.

#### *Vespula* Thomson, 1869

Taxonomic decision of Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [3].

#### *Vespula* (*Paravespula*) Blüthgen, 1938

*Paravespula* Blüthgen, P. (1938). Systematisches Verzeichnis der Faltenwespen Mittel-europas, Skandinaviens und Englands. *Konowia* **16**: 270-295 [271] [proposed with subgeneric rank in *Dolichovespula* Rohwer, 1916]. Type species *Vespa vulgaris* Linnaeus, 1758 by original designation.

This group has a natural distribution in the Holarctic Region only, see Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1- 132.

#### *Vespula* (*Paravespula*) *germanica* (Fabricius, 1793)

*Vespa germanica* Fabricius, J.C. (1793). *Entomologia Systematica Emendata et Aucta*. Secundum classes, ordines, genera, species. Adjectis synonymis, locis, observationibus, descriptionibus. Hafniae : C.G. Profit Vol. 2 viii 519 pp. [256]. Type data: syntypes (probable), adult whereabouts unknown, from Kiel (as Kiliae), West Germany.

Distribution: SE coastal, N.S.W., Vic., Tas., S.A., W.A.; native to Europe, accidentally introduced into Australia (N.S.W. 1975, Vic. 1977, Tas. 1959, S.A. 1978, W.A. 1977), still spreading in N.S.W. and Vic., eradication attempted and apparently successful in S.A. and W.A., also introduced into New Zealand, North and South America, and South Africa. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Thomas, C.R. (1960). The European

wasp (*Vespula germanica* Fab.) in New Zealand. *Inf. Ser. Dept. Sci. Ind. Res. N.Z.* **27**: 1-74 (biology in New Zealand); Spradbery, J.P. (1973). The European social wasp, *Paravespula germanica* (F.) (Hymenoptera : Vespidae) in Tasmania, Australia. *Proc. VII Congr. I.U.S.S.I.* (London, 1973) pp. 375-380 (biology); Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 (distribution, illustration); Smithers, C.N. & Holloway, G.A. (1978). Establishment of *Vespula germanica* (Fabricius) (Hymenoptera : Vespidae) in New South Wales. *Aust. Entomol. Mag.* **5**: 55-59 (biology in N.S.W.); Edwards, R. (1980). *Social Wasps : Their Biology and Control*. East Grinstead : Rentokil Ltd. 398 pp. (biology); Madden, J.L. (1981). Factors influencing the abundance of the European wasp (*Paravespula germanica* (F.)). *J. Aust. Entomol. Soc.* **20**: 59-65 (biology); Anon. (1981). New and unusual insect records in Victoria. *Rep. Vict. Plant Res. Inst.* **10**: 94-96 (discovery in Vic.); White, B.R. (1983). Field day report. European wasps. *Australas. Beekpr.* **85**: 17 (spread in N.S.W.).

***Vespula (Paravespula) vulgaris* (Linnaeus, 1758)**

*Vespa vulgaris* Linnaeus, C. von (1758). *Systema Naturae* per regna tria naturae, secundum classes, ordines, genera, species, cum characteribus, differentiis, synonymis, locis. 10th edn. Stockholm : Laurentii Salvii Vol. 1 823 pp. [572]. Type data: lectotype, LS \*F. adult, from Europa, designation by Day, M.C. (1979). The species of Hymenoptera described by Linnaeus in the genera *Sphex*, *Chrysis*, *Vespa*, *Apis* and *Mutilla*. *Biol. J. Linn. Soc.* **12**: 45-84.

Distribution: SE coastal, Vic.; native to Europe, accidentally introduced into Vic. (1958) and spreading slowly from Melbourne area in spite of attempted eradication, also introduced in North America and Hawaii, found in Asia Minor and Palaearctic Asia. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 (distribution); Edwards, R. (1980). *Social Wasps: Their Biology and Control*. East Grinstead : Rentokil 398 pp. (biology).

***Polistes* Latreille, 1802**

Taxonomic decision of Richards, O.W. (1973). The subgenera of *Polistes* Latreille (Hymenoptera, Vespidae). *Rev. Bras. Entomol.* **17**: 85-104 [85].

***Polistes (Polistes)* Latreille, 1802**

*Polistes* Latreille, P.A. (1802). *Histoire Naturelle, Générale et Particulière des Crustacés et des Insectes*. Paris : F. Dufart Vol. 3 xii 13+467 pp. (1802-1803) [363]. Type species *Vespa gallica* Linnaeus, 1767 by

subsequent designation, see Blanchard, E. (1840). Histoire naturelle des insectes; orthoptères, névroptères, hémiptères, hyménoptères, lépidoptères et diptères. in Castelnau, F.L. (1840). *Histoire Naturelle des Animaux Articulés*. Paris : P. Dumenil Vol. 3 672 pp.

This group is also found in the Oriental, Palaearctic and Ethiopian Regions, see Richards, O.W. (1973). The subgenera of *Polistes* Latreille (Hymenoptera, Vespidae). *Rev. Bras. Entomol.* **17**: 85-104.

***Polistes (Polistes) dominulus* (Christ, 1791)**

*Vespa dominula* Christ, J.L. (1791). *Naturgeschichte, Classification und Nomenclatur der Insecten vom Bienen, Wespen und Ameisengeschlecht*. Frankfurt-am-Main : Hermann 535 pp. [229] [this is a new record for Australia, based on O.W. Richards' identification of specimens as *Polistes gallicus* (Linnaeus, 1767)]. Type data: syntypes, adult whereabouts unknown, from Kronberg, West Germany. Compiled from secondary source: Blüthgen, P. (1961). Die Faltenwespen Mitteleuropas (Hymenoptera, Diploptera). *Abh. Dt. Akad. Wiss. Berl. Kl. Chem. Geol. Biol.* **1961**(2): 1-251.

*Polistes gallicus* Auctorum [this is not *Polistes gallicus* (Linnaeus, 1767), originally described in *Vespa*].

Taxonomic decision of Day, M.C. (1979). The species of Hymenoptera described by Linnaeus in the genera *Sphex*, *Chrysis*, *Vespa*, *Apis* and *Mutilla*. *Biol. J. Linn. Soc.* **12**: 45-84 [63].

Distribution: SW coastal, W.A.; accidentally introduced into the Perth area, established by 1977, native to the Palearctic Region and introduced into Massachusetts (U.S.A.). Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Guiglia, D. (1972). Les guêpes sociales (Hymenoptera Vespidae) d'Europe occidentale et septentrionale. *Faune de l'Europe et du Bassin Méditerranéen* **6**: 1-181 (biology as *Polistes gallicus*); Hathaway, M. (1982). *Polistes gallicus* in Massachusetts (Hymenoptera : Vespidae). *Psyche Camb.* **88**: 169-173 (U.S.A. record as *Polistes gallicus*).

***Polistes (Megapolistes)* van der Vecht, 1968**

*Megapolistes* van der Vecht, J. (1968). The geographic variation of *Polistes* (*Megapolistes* subgen. n.) *rothneyi* Cameron. *Bijdr. Dierkd.* **38**: 97-109 [97] [proposed with subgeneric rank in *Polistes* Latreille, 1802]. Type species *Vespa olivacea* Degeer, 1773 by original designation.

This group is also found in the Oriental Region and Pacific islands, see Richards, O.W. (1978). *The Social Wasps of the Americas: excluding the Vespinae*. London : British Museum 580 pp.

***Polistes (Megapolistes) balder* Kirby, 1888**

*Polistes balder* Kirby, W.F. (1888). On the insects (exclusive of Coleoptera and Lepidoptera) of Christmas



Island. *Proc. Zool. Soc. Lond.* **1888**: 546–555 [552]. Type data: holotype, BMNH \*F. adult, from Christmas Is.

Distribution: Christmas Is., Cocos (Keeling) Is. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 (redescription).

***Polistes (Megapolistes) erythrinus*** Holmgren, 1868

***Polistes erythrinus*** Holmgren, A.E. (1868). Hymenoptera, species novas descripsit. *Kongliga Svenska Fregatten Eugenies resa omkring Jorden under befäl af C.A. Virgin Aren 1851–53. II Zoologi 1 Insecta* pp. 391–442 pl viii [440]. Type data: holotype, \*NHRM \*F. adult, from Sydney, N.S.W.

Distribution: SE coastal, Murray-Darling basin, Qld., N.S.W., A.C.T., Vic., S.A. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 (redescription, nest, biology).

***Polistes (Megapolistes) facilis*** Saussure, 1853

***Polistes facilis*** Saussure, H. de (1853). *Études sur la Famille des Vespides. 2. Monographie des Guêpes Sociales, ou de la Tribu des Vespiciens, ouvrage faisant suite à la Monographie des Guêpes Solitaires.* Paris : Masson cxcix 256 pp. pls i–xxxvii (1853–1858) [53]. Type data: holotype, MZUT (probable) \*adult, from Australia (as New Holland).

Distribution: NE coastal, Qld.; only published localities Gladstone, Rockhampton and Yeppoon. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 (redescription).

***Polistes (Megapolistes) olivaceus*** (Degeer, 1773)

***Vespa olivacea*** Degeer, C. (1773). *Mémoires pour Servir à l'Histoire des Insectes.* Stockholm Vol. 3 [582 pl 24 fig 9]. Type data: holotype, adult whereabouts unknown, from America. Compiled from secondary source: Richards, O.W. (1978). *The Social Wasps of the Americas: excluding the Vespinae.* London : British Museum 580 pp.

Distribution: NE coastal, Qld.; accidentally introduced into Brisbane (1946, 1953), possibly temporarily established, normal distribution is Indian area to S China, Pacific islands, and accidentally introduced into New Zealand but not established. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Richards, O.W. (1978). *The Social*

*Wasps of the Americas: excluding the Vespinae.* London : British Museum 580 pp. (redescription, distribution); Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 (larva, redescription, nest).

***Polistes (Megapolistes) schach*** (Fabricius, 1781)

***Vespa schach*** Fabricius, J.C. (1781). *Species Insectorum exhibentes eorum differentias específicas, synonyma auctorum, loca natalia, metamorphosin adiectis observationibus, descriptionibus.* Hamburgi et Kilonii Vols i–ii [461]. Type data: holotype, BMNH \*F. adult, from Australia (as New Holland).

Distribution: NE coastal, Murray-Darling basin, N coastal, Qld., N.S.W., W.A., N.T. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 (redescription).

***Polistes (Megapolistes) tepidus*** (Fabricius, 1775)

Taxonomic decision of Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 [19]. (with a list of non-Australian subspecies, including *Polistes tepidus picteti* Saussure, 1853, described from New Holland but actually occurring only in Ambon, Seram, and West Irian)

***Polistes (Megapolistes) tepidus tepidus*** (Fabricius, 1775)

***Vespa tepida*** Fabricius, J.C. (1775). *Systema Entomologiae, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus.* Flensburgi et Lipsiae : Kortii xxvii 832 pp. [366]. Type data: holotype, BMNH \*F. adult, from Australia (as New Holland).

***Polistes malayanus*** Cameron, P. (1906). Hymenoptera I (all families except Apidae and Formicidae). pp 41–65 in Wichmann, A. *Nova Guinea, Résultats de l'Expédition Scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les Auspices de Arthur Wichmann, Chef de l'Expédition.* Leiden : E.J. Brill Vol. 5 [60]. Type data: holotype, BMNH \*F. adult, from Manokwari, New Guinea.

Distribution: NE coastal, SE coastal, Qld., N.S.W., Vic.; also New Guinea, Bougainville Is., Aru Is., Ki Is., Russell Is. and Solomon IIs. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Hook, A. (1982). Observations on a declining nest of *Polistes tepidus* (F.) (Hymenoptera : Vespidae). *J. Aust. Entomol. Soc.* **21**: 277–278 (biology).

***Polistes (Stenopolistes)*** van der Vecht, 1972

***Stenopolistes*** van der Vecht, J. (1972). The subgenera *Megapolistes* and *Stenopolistes* in the Solomon Islands (Hymenoptera, Vespidae, *Polistes* Latreille). pp. 87–106

in, *Entomological Essays to Commemorate the Retirement of Professor K. Yasumatsu 1971*. Tokyo : Hokuryukan Publishing Co. Ltd. [101] [proposed with subgeneric rank in *Polistes* Latreille, 1802]. Type species *Polistes lateritius* Smith, 1857 by original designation.

This group is also found in the Oriental Region, see Richards, O.W. (1973). The subgenera of *Polistes* Latreille (Hymenoptera, Vespidae). *Rev. Bras. Entomol.* **17**: 85–104.

***Polistes (Stenopolistes) laevigatissimus*** Giordani Soika, 1975

***Polistes laevigatissimus*** Giordani Soika, A. (1975). Notulae vespilogicae XXXVII. Nuovi *Polistes* del continente australiano (Hymenoptera Vespidae). *Boll. Soc. Entomol. Ital.* **107**: 20–25 [25]. Type data: holotype, AM F. adult not found, from Lombardia, Broome, W.A.

Distribution: N coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 (redescription).

***Polistes (Stenopolistes) riekii*** Richards, 1978

***Polistes (Stenopolistes) riekii*** Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 [23]. Type data: holotype, ANIC F. adult, from Iron Range, Qld.

Distribution: NE coastal, N Gulf, Qld.; only published localities Iron Range, Lockerbie, Claudie River and Mt. Tozer. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Polistes (Polistella) Ashmead, 1904***

***Polistella*** Ashmead, W.H. (1904). Descriptions of new genera and species of Hymenoptera from the Philippine Islands. *Proc. U.S. Natl. Mus.* **28**: 127–158 [133]. Type species *Polistes manillensis* Saussure, 1853 by monotypy and original designation.

This group is also found in the Oriental and Ethiopian Regions, see Richards, O.W. (1973). The subgenera of *Polistes* Latreille (Hymenoptera, Vespidae). *Rev. Bras. Entomol.* **17**: 85–104.

***Polistes (Polistella) bernardii*** Le Guillou, 1841

Taxonomic decision of Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 [25].

***Polistes (Polistella) bernardii bernardii*** Le Guillou, 1841

***Polistes bernardii*** Le Guillou, E.J.F. (1841). Description de 20 espèces nouvelles appartenant à diverses familles d'Hyménoptères. *Rev. Zool.* **4**: 322–325 [325]. Type data: holotype, F. adult whereabouts unknown, from N Australia (as Aust. sept.).

Distribution: N Gulf, N coastal, N.T.; only published localities Darwin and Groote Eylandt. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Polistes (Polistella) bernardii duplicinctus*** Richards, 1978

***Polistes (Polistella) bernardii duplicinctus*** Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 [28]. Type data: holotype, ANIC F. adult, from Millstream, W.A.

***[Polistes townsvillensis]*** Giordani Soika, A. (1975). Notulae vespilogicae XXXVII. Nuovi *Polistes* del continente australiano (Hymenoptera Vespidae). *Boll. Soc. Entomol. Ital.* **107**: 20–25 [22] [for species assignment of the two paratypes see Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132]. Type data: paratypes, SAMA \*1M., 1F., from Hamersley Range, Fortescue River, W.A.

Distribution: N coastal, NW coastal, W.A.; only published localities Millstream, Hamersley Range, W Kimberleys and Wotjulum. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Polistes (Polistella) bernardii insulae*** Richards, 1978

***Polistes (Polistella) bernardii insulae*** Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 [30]. Type data: holotype, ANIC F. adult, from Dauan Is., Qld.

Distribution: NE coastal, Qld.; only published localities Dauan Is., Banks Is., Murray Is., Thursday Is., also in New Guinea. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Polistes (Polistella) bernardii richardsi*** Giordani Soika, 1975

***Polistes richardsi*** Giordani Soika, A. (1975). Notulae vespilogicae XXXVII. Nuovi *Polistes* del continente australiano (Hymenoptera Vespidae). *Boll. Soc. Entomol. Ital.* **107**: 20–25 [23]. Type data: holotype, SAMA \*F. adult, from Roper River, N.T.

Distribution: N Gulf, N coastal, NE coastal, Qld., N.T. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Polistes (Polistella) humilis*** (Fabricius, 1781)

Taxonomic decision of Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 [43].



***Polistes (Polistella) humilis humilis*** (Fabricius, 1781)

***Vespa humilis*** Fabricius, J.C. (1781). *Species Insectorum* exhibentes eorum differentias specificas, synonyma auctorum, loca natalia, metamorphosin adiectis observationibus, descriptionibus. Hamburgi et Kilonii Vol. i [461]. Type data: lectotype, BMNH \*M. adult, from Australia (as New Holland), designation by Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132.

***Polistes tasmaniensis*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 2. Monographie des Guêpes Sociales, ou de la Tribu des Vespiniens, ouvrage faisant suite à la Monographie des Guêpes Solitaires. Paris : Masson cxcix 256 pp. pls i-xxxvii (1853-1858) [66 pl vi fig 6, pl viii fig 3]. Type data: lectotype, MNHP \*F. adult, from Australia (as New Holland), designation by Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132.

***Polistes tricolor*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 2. Monographie des Guêpes Sociales, ou de la Tribu des Vespiniens, ouvrage faisant suite à la Monographie des Guêpes Solitaires. Paris : Masson cxcix 256 pp. pls i-xxxvii (1853-1858) [67]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

***Polistes humilis pseudoscach*** Giordani Soika, A. (1975). Notulae vespilogicae XXXVII. Nuovi *Polistes* del continente australiano (Hymenoptera Vespidae). *Boll. Soc. Entomol. Ital.* **107**: 20-25 [21]. Type data: holotype, AM F. adult not found, from Dubbo, N.S.W.

Distribution: SE coastal, Murray-Darling basin, Qld., N.S.W., A.C.T., Vic., S.A.; accidentally introduced to New Zealand. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Robertson, P.L. (1968). A morphological and functional study of the venom apparatus in representatives of some major groups of Hymenoptera. *Aust. J. Zool.* **16**: 133-166 (venom apparatus); Owen, M.D. (1979). Chemical components in the venoms of *Ropalidia revolutionalis* and *Polistes humilis* (Hymenoptera, Vespidae). *Toxicon* **17**: 519-523 (venom analysis).

***Polistes (Polistella) humilis centrocontinentalis*** Giordani Soika, 1975

***Polistes humilis centrocontinentalis*** Giordani Soika, A. (1975). Notulae vespilogicae XXXVII. Nuovi *Polistes* del continente australiano (Hymenoptera Vespidae). *Boll. Soc. Entomol. Ital.* **107**: 20-25 [20]. Type data: holotype, A. Giordani Soika pers. coll. \*F. adult, from Central Australia.

Distribution: type locality only. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Polistes (Polistella) humilis synoecus*** Saussure, 1853

***Polistes synoecus*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 2. Monographie des Guêpes Sociales, ou de la Tribu des Vespiniens, ouvrage faisant suite à la Monographie des Guêpes Solitaires. Paris : Masson cxcix 256 pp. pls i-xxxvii (1853-1858) [65 pl vi fig 5]. Type data: lectotype, MNHP \*M. adult, from Australia (as New Holland), designation by Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132.

***Polistes variabilis reginae*** Meade-Waldo, G. (1911). New species of Diptera in the collection of the British Museum. iii. *Ann. Mag. Nat. Hist.* (8) **7**: 98-113 [101] [described as variety]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cooktown, Qld.

***Polistes humilis xanthorrhoeus*** Giordani Soika, A. (1975). Notulae vespilogicae XXXVII. Nuovi *Polistes* del continente australiano (Hymenoptera Vespidae). *Boll. Soc. Entomol. Ital.* **107**: 20-25 [21]. Type data: holotype, BMNH \*F. adult, from N Qld.

***Polistes humilis clarior*** Giordani Soika, A. (1975). Notulae vespilogicae XXXVII. Nuovi *Polistes* del continente australiano (Hymenoptera Vespidae). *Boll. Soc. Entomol. Ital.* **107**: 20-25 [22]. Type data: holotype, BMNH \*F. adult, from N Qld.

Distribution: NE coastal, SE coastal, Murray-Darling basin, SW coastal, (N coastal), Qld., N.S.W., W.A., (N.T.); accidentally introduced to Perth area in about 1950, also introduced into the Society Is. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Polistes (Polistella) sgarambus*** Giordani Soika, 1975

***Polistes sgarambus*** Giordani Soika, A. (1975). Notulae vespilogicae XXXVII. Nuovi *Polistes* del continente australiano (Hymenoptera Vespidae). *Boll. Soc. Entomol. Ital.* **107**: 20-25 [24]. Type data: holotype, AM F. adult not found, from East Alligator River, Oenpelli, N.T.

Distribution: N coastal, N.T.; only published localities East Alligator River, Oenpelli, Mt. Cahill and Darwin. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 (redescription).

***Polistes (Polistella) townsvillensis*** Giordani Soika, 1975

Taxonomic decision of Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [36].

***Polistes (Polistella) townsvillensis townsvillensis*** Giordani Soika, 1975

***Polistes townsvillensis*** Giordani Soika, A. (1975). Notulae vespilogicae XXXVII. Nuovi *Polistes* del



continente australiano (Hymenoptera Vespidae). *Boll. Soc. Entomol. Ital.* **107**: 20–25 [22] [two paratypes transferred to *Polistes bernardii duplicinctus* Richards, 1978]. Type data: holotype, SAMA \*F. adult, from Townsville, Qld.

Distribution: NE coastal, N Gulf, N coastal, Qld., W.A., N.T. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Polistes (Polistella) townsvillensis austrinus*** Richards, 1978

***Polistes (Polistella) townsvillensis austrinus*** Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 [37]. Type data: holotype, ANIC F. adult, from Bundaberg, Qld.

***Polistes synoecus*** Auctorum [this is not *Polistes synoecus* Saussure, 1853, which has been placed as a subspecies of *Polistes humilis* (Fabricius, 1781)].

Distribution: NE coastal, SE coastal, Murray-Darling basin, Qld., N.S.W., Vic. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Polistes (Polistella) variabilis*** (Fabricius, 1781)

***Vespa variabilis*** Fabricius, J.C. (1781). *Species Insectorum* exhibentes eorum differentias specificas, synonyma auctorum, loca natalia, metamorphosin adiectis observationibus, descriptionibus. Hamburgi et Kilonii Vol. i [466]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

Distribution: NE coastal, Qld. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 (redescription).

### ***Ropalidia* Guérin, 1831**

Taxonomic decision of Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 [56].

Species now known not to occur in Australia: ***Ropalidia punctum*** (Fabricius, 1804), proposed in *Polistes* Latreille, 1802, from "Nova Cambria", is from the Ethiopian Region *teste* van der Vecht, J. (1958). On some Fabrician types of Indo-Australian Vespidae (Hymenoptera). *Arch. Néerl. Zool.* **13** 1 Suppl.: 234–247.

### ***Ropalidia (Ropalidia)* Guérin, 1831**

***Ropalidia*** Guérin-Ménéville, F.E. (1831). Insectes. in Duperrey, L.J. (1830–1832). *Voyage Autour du Monde, Exécuté par Ordre du Roi, sur la Corvette de la Majesté, La Coquille, Pendant les Années 1822, 1823, 1824, et 1825, ...* Atlas. Histoire naturelle. Zoologie. pls 1–21 Paris : Bertrand [pl 9 fig 8]. Type species *Ropalidia maculiventris* Guérin, 1831 by monotypy.

***Rhopalidia*** Guérin-Ménéville, F.E. (1838). Crustacés, Arachnides et Insectes. pp. 57–302 in Duperrey, L.J. (1838). *Voyage Autour du Monde, Exécuté par Ordre du roi, sur la Corvette de la Majesté, La Coquille, Pendant les Années 1822, 1823, 1824, et 1825, ...* Zool. Vol. ii Pt. 2 Div. 1 Chap. xiii Paris : Bertrand [266] [emend. and description of *Ropalidia* Guérin, 1831; *non Ropalidia* Lepeletier, 1836 suppressed by International Commission on Zoological Nomenclature (1976). Opinion 1051. *Rhopalidia* Lepeletier, 1836 (Insecta : Hymenoptera): suppressed under the plenary powers. *Bull. Zool. Nomen.* **32**: 240–241].

***Icaria*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 2. Monographie des Guêpes Sociales, ou de la Tribu des Vespiciens, ouvrage faisant suite à la Monographie des Guêpes Solitaires. Paris : Masson cxcix 256 pp. pls i–xxxvii (1853–1858) [22]. Type species *Ropalidia maculiventris* Guérin, 1831 by subsequent designation, see Bingham, C.T. (1897). *The Fauna of British India, including Ceylon and Burma*. Hymenoptera. Vol. I Wasps and bees. London : Taylor & Francis xxx 579 pp.

This group is also found in the Oriental Region, see Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132.

### ***Ropalidia (Ropalidia) eboraca* Richards, 1978**

***Ropalidia (Ropalidia) eboraca*** Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 [66]. Type data: holotype, ANIC F. adult, from Lockerbie, Cape York, Qld.

Distribution: NE coastal, N Gulf, Qld. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

### ***Ropalidia (Ropalidia) fulvopruinosa* (Cameron, 1906)**

***Odynerus (Leionotus) fulvopruinosus*** Cameron, P. (1906). Hymenoptera of the Dutch expedition to New Guinea in 1904 and 1905. Part 1, Thynnidae, Scoliidæ, Pompilidae, Sphegidae and Vespidae. *Tijdschr. Entomol.* **49**: 215–233 [225]. Type data: holotype, ZMA \*F. adult, from Etna Bay, New Guinea.

Distribution: NE coastal, N Gulf, Qld.; also New Guinea. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1–132 (redescription, nest).

### ***Ropalidia (Polistratus)* Cameron, 1906**

***Polistratus*** Cameron, P. (1906). Hymenoptera I (all families except Apidae and Formicidae). pp 41–65 in Wichmann, A. *Nova Guinea, Résultats de l'Expédition Scientifique Néerlandaise à la Nouvelle-Guinée en 1903, sous les Auspices de Arthur Wichmann, Chef de l'Expédition*. Leiden : E.J. Brill Vol. 5 [59]. Type species

*Polistratus cariniscutis* Cameron, 1906 (= *Icaria brunnea* Smith, 1858) by monotypy.

This group is also found in the Oriental Region and Madagascar, see Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132.

***Ropalidia (Polistratus) latetergum* Richards, 1978**

***Ropalidia (Polistratus) latetergum* Richards, O.W. (1978).** The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [69]. Type data: holotype, NMV T7676 \*F. adult, from Kuranda, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volent; social, nests of "paper".

***Ropalidia (Icariola) Dalla Torre, 1904***

***Icariola* Dalla Torre, K.W. von (1904).** Hymenoptera. Fam. Vespidae. *Genera Insectorum* **19**: 1-108 [72] [proposed with subgeneric rank in *Icaria* Saussure, 1853]. Type species *Icaria gregaria* Saussure, 1853 by subsequent designation, see Meade-Waldo, G. (1913). New species of Diploptera in the collection of the British Museum. Part IV. *Ann. Mag. Nat. Hist. (8)* **11**: 44-54.

***Zuba* Cheesman, L.E. (1952).** *Ropalidia* of Papuasias. *Ann. Mag. Nat. Hist. (12)* **5**: 1-26 4 pls [15] [proposed with subgeneric rank in *Ropalidia* Guérin, 1831]. Type species *Icaria gregaria* Saussure, 1853 by subsequent designation, see Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132.

This group is found in all tropical regions except America, see Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132.

***Ropalidia (Icariola) darwini* Richards, 1978**

***Ropalidia (Icariola) darwini* Richards, O.W. (1978).** The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [72]. Type data: holotype, AM K69358 F. adult, from Milners Swamp, N.T.

Distribution: N coastal, N.T.; only published localities Milners Swamp, Cahills Crossing (East Alligator River) and Darwin. Ecology: larva - sedentary, predator : adult - volent; social, nests of "paper".

***Ropalidia (Icariola) deceptor* (Smith, 1864)**

***Icaria deceptor* Smith, F. (1864).** Catalogue of hymenopterous insects collected by Mr. A.R. Wallace in the Islands of Mysol, Ceram, Waigiou, Bouru and Timor. *J. Linn. Soc. Lond. Zool.* **7**: 6-48 [42]. Type data: holotype, OUM \*F. adult, from Misool Is. (as Mysol), New Guinea.

Distribution: NE coastal, N Gulf, Qld.; also West Irian (Misool Is.). Ecology: larva - sedentary, predator : adult - volent; social, nests of "paper". Biological references: Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 (redescription, nest).

***Ropalidia (Icariola) elegantula* Richards, 1978**

***Ropalidia (Icariola) elegantula* Richards, O.W. (1978).** The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [70]. Type data: holotype, ANIC F. adult, from Bamaga, Cape York Peninsula, Qld.

Distribution: NE coastal, N Gulf, Qld. Ecology: larva - sedentary, predator : adult - volent; social, nests of "paper". Biological references: Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 (nest).

***Ropalidia (Icariola) eurostoma* Richards, 1978**

***Ropalidia (Icariola) eurostoma* Richards, O.W. (1978).** The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [93]. Type data: holotype, SAMA F. adult not found, paratypes SAMA 2F., from Mornington Is., Qld.

Distribution: NE coastal, Qld.; only published localities Mornington Is. and Australia (as New Holland). Ecology: larva - sedentary, predator : adult - volent; social, nests of "paper".

***Ropalidia (Icariola) gracilenta* Richards, 1978**

***Ropalidia (Icariola) gracilenta* Richards, O.W. (1978).** The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [98]. Type data: holotype, AM K69363 F. adult, from North Creek near Ballina, N.S.W.

Distribution: NE coastal, (N Gulf), SE coastal, Qld., N.S.W.; only published localities Stradbroke Is., Fraser Is., Mackay, ?Coen and near Ballina. Ecology: larva - sedentary, predator : adult - volent; social, nests of "paper".

***Ropalidia (Icariola) gregaria* (Saussure, 1854)**

Taxonomic decision of (including extralimital synonymy) Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [83].

***Ropalidia (Icariola) gregaria gregaria* (Saussure, 1854)**

***Polistes bioculata* Fabricius, J.C. (1804).** *Systema Piezatorum*. Brunsvigae : C. Reichard xiv 439 pp. [278] [Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 examined the holotype and stated that the condition of the specimen was such that accurate

assessment was not possible but tentatively placed it with *gregaria*]. Type data: holotype, UZM \*F. adult, from Nova Cambria".

***Icaria gregaria*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 2. Monographie des Guêpes Sociales, ou de la Tribu des Vespiciens, ouvrage faisant suite à la Monographie des Guêpes Solitaires. Paris : Masson cxcix 256 pp. pls i-xxxvii (1853-1858) [236]. Type data: syntypes (probable), F. adult whereabouts unknown, from Australia (as New Holland).

Distribution: N coastal, N.T. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Ropalidia (Icariola) gregaria spilocephala*** (Cameron, 1906)

***Icaria spilocephala*** Cameron, P. (1906). Hymenoptera of the Dutch expedition to New Guinea in 1904 and 1905. Part 1, Thynnidae, Scoliidae, Pompilidae, Sphegidae and Vespidae. *Tijdschr. Entomol.* **49**: 215-233 [230]. Type data: holotype, ZMA \*M. adult, from Etna Bay, New Guinea.

Distribution: NE coastal, Murray-Darling basin, Qld., N.S.W., Vic.; also New Guinea, New Ireland and Solomon IIs. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Ropalidia (Icariola) hirsuta*** Richards, 1978

***Ropalidia (Icariola) hirsuta*** Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [81]. Type data: holotype, BMNH \*F. adult, from Port Darwin, N.T.

Distribution: N coastal, N.T.; type locality only. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Ropalidia (Icariola) interrupta*** van der Vecht, 1941

Taxonomic decision of Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [89].

***Ropalidia (Icariola) interrupta interrupta*** van der Vecht, 1941

***Ropalidia variegata interrupta*** van der Vecht, J. (1941). The Indo-Australian species of the genus *Ropalidia* (= *Icaria*) (Hym., Vespidae) (First Part). *Treubia* **18**: 103-190 [158]. Type data: holotype, MCZ F. adult lost, from Thursday Is., Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Ropalidia (Icariola) interrupta flavinoda*** van der Vecht, 1941

***Ropalidia variegata flavinoda*** van der Vecht, J. (1941). The Indo-Australian species of the genus *Ropalidia*

(= *Icaria*) (Hym., Vespidae) (First Part). *Treubia* **18**: 103-190 [158]. Type data: holotype, MCZ F. adult lost, from Cape York, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Ropalidia (Icariola) kurandae*** Richards, 1978

***Ropalidia (Icariola) kurandae*** Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [106]. Type data: holotype, ANIC F. adult, from Ellis Beach N of Cairns, Qld.

Distribution: NE coastal, N Gulf, Qld.; one N.S.W. record possibly a stray. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Ropalidia (Icariola) mackayensis*** Richards, 1978

***Ropalidia (Icariola) mackayensis*** Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [105]. Type data: holotype, ANIC F. adult, from 35 mi SE Ayr, Qld.

Distribution: NE coastal, N Gulf, Qld. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Ropalidia (Icariola) marginata*** (Lepeletier, 1836)

Taxonomic decision of van der Vecht, J. (1941). The Indo-Australian species of the genus *Ropalidia* (= *Icaria*) (Hym., Vespidae) (First Part). *Treubia* **18**: 103-190 [120] (including non-Australian subspecies).

***Ropalidia (Icariola) marginata jucunda*** (Cameron, 1898)

***Icaria jucunda*** Cameron, P. (1898). Hymenoptera orientalia, or contributions to a knowledge of the Hymenoptera of the oriental zoological region. Part VII. *Mem. Proc. Manchr. Lit. Phil. Soc.* **42**(11): 1-84 pl iv [46]. Type data: holotype, OUM \*F. adult, from New Guinea.

Distribution: NE coastal, N Gulf, Qld.; also in New Guinea, New Britain, and the Philippines. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 (redescription); Crosskey, R.W. (1973). A conspectus of the Tachinidae (Diptera) of Australia, including keys to the supraspecific taxa and taxonomic and host catalogues. *Bull. Br. Mus. Nat. Hist. (Entomol. Suppl.)* **21**: 1-221 (dipterous parasite).

***Ropalidia (Icariola) mutabilis*** Richards, 1978

Taxonomic decision of Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132.



***Ropalidia (Icariola) mutabilis mutabilis*** Richards, 1978

***Ropalidia (Icariola) mutabilis mutabilis*** Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [94]. Type data: holotype, ANIC F. adult, from 2 mi ENE Victoria River Downs Homestead, N.T.

Distribution: N Gulf, N coastal, N.T., W.A. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Ropalidia (Icariola) mutabilis torresiana*** Richards, 1978

***Ropalidia (Icariola) mutabilis torresiana*** Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [96]. Type data: holotype, ANIC F. adult, from Iron Range, Qld.

Distribution: NE coastal, N Gulf, Qld.; only published localities Iron Range, Somerset and Prince of Wales Is. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Ropalidia (Icariola) plebiana*** Richards, 1978

***Icaria plebeja*** Saussure, H. de (1863). Mélanges hyménoptérologiques. *Mém. Soc. Phys. Hist. Nat. Genève* **17**: 171-244 [235] [*non Icaria plebeja* Saussure, 1862, described from Celebes; no new name proposed by O.W. Richards as he believed this species to be the same as *Ropalidia (Icariola) plebiana* Richards, 1978]. Type data: syntypes (probable), adult whereabouts unknown, from Australia (as New Holland).

***Ropalidia (Icariola) plebiana*** Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [75]. Type data: holotype, ANIC F. adult, from Nelligen, N.S.W.

Taxonomic decision of Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [75].

Distribution: NE coastal, SE coastal, Murray-Darling basin, Qld., N.S.W., A.C.T., Vic. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Hook, A. & Evans, H.E. (1982). Observations on the nesting behaviour of three species of *Ropalidia* Guérin-Ménéville (Hymenoptera : Vespidae). *J. Aust. Entomol. Soc.* **21**: 271-275 (biology).

***Ropalidia (Icariola) proletaria*** Richards, 1978

***Ropalidia (Icariola) proletaria*** Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [96]. Type data: holotype, BMNH \*F. adult, from N Qld.

Distribution: (NE coastal), (N coastal), (N Gulf), Qld., (N.T.); only published localities North Queensland, Queensland and ?Port Darwin. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Ropalidia (Icariola) revolutionalis*** (Saussure, 1853)

***Icaria revolutionalis*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 2. Monographie des Guêpes Sociales, ou de la Tribu des Vespiciens, ouvrage faisant suite à la Monographie des Guêpes Solitaires. Paris : Masson cxcix 256 pp. pls i-xxxvii (1853-1858) [29 pl v fig 7]. Type data: holotype, MNHP \*F. adult, from Australia ("La Nouvelle Hollande ou la Tasmanie", Australie" on label).

Distribution: NE coastal, Murray-Darling basin, Qld.; possibly also New Britain. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 (redescription, nest); Owen, M.D. (1979). Chemical components in the venoms of *Ropalidia revolutionalis* and *Polistes humilis* (Hymenoptera, Vespidae). *Toxicon* **17**: 519-523 (venom analysis - species identification is doubtful, locality outside normal range); Hook, A. & Evans, H.E. (1982). Observations on the nesting behaviour of three species of *Ropalidia* Guérin-Ménéville (Hymenoptera : Vespidae). *J. Aust. Entomol. Soc.* **21**: 271-275 (biology).

***Ropalidia (Icariola) socialistica*** (Saussure, 1853)

***Icaria socialistica*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 2. Monographie des Guêpes Sociales, ou de la Tribu des Vespiciens, ouvrage faisant suite à la Monographie des Guêpes Solitaires. Paris : Masson cxcix 256 pp. pls i-xxxvii (1853-1858) [27 pl iv fig 6]. Type data: lectotype, MNHP \*F. adult, from "Tasmanie" (probably erroneous), designation by Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132.

Distribution: NE coastal, N Gulf, Murray-Darling basin, SE coastal, (N coastal), Qld., N.S.W., (N.T.); N.T. specimens may be incorrectly labelled. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper". Biological references: Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 (redescription); Hook, A. & Evans, H.E. (1982). Observations on the nesting behaviour of three species of *Ropalidia* Guérin-Ménéville (Hymenoptera : Vespidae). *J. Aust. Entomol. Soc.* **21**: 271-275 (biology).

***Ropalidia (Icariola) trichophthalma*** Richards, 1978

***Ropalidia (Icariola) trichophthalma*** Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [102]. Type data: holotype, ANIC F. adult, from Forest Road near Ingham, Qld.

Distribution: NE coastal, N Gulf, (N coastal), Qld., (N.T.), (W.A.); specimens other than from Qld. believed to be incorrectly labelled. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Ropalidia (Icariola) turneri*** Richards, 1978

***Ropalidia (Icariola) turneri*** Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [73]. Type data: holotype, ANIC F. adult, from Kuranda, Qld.

Distribution: NE coastal, Qld. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Ropalidia (Icarielia)*** Dalla Torre, 1904

***Icarielia*** Dalla Torre, K.W. von (1904). Hymenoptera. Fam. Vespidae. *Genera Insectorum* **19**: 1-108 [72] [proposed with subgeneric rank in *Icaria* Saussure, 1853]. Type species *Icaria flavopicta* Smith, 1857 by subsequent designation, see Meade-Waldo, G. (1913). New species of Diploptera in the collection of the British Museum. Part IV. *Ann. Mag. Nat. Hist. (8)* **11**: 44-54.

This group is also found in the Oriental Region, see Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132.

***Ropalidia (Icarielia) nigrior*** Richards, 1978

***Ropalidia (Icarielia) nigrior*** Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [113]. Type data: holotype, ANIC F. adult, from Iron Range, Qld.

Distribution: NE coastal, N Gulf, Qld.; possibly also in New Guinea. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Ropalidia (Icarielia) romandi*** (Le Guillou, 1841)

Taxonomic decision of Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132 [109].

***Ropalidia (Icarielia) romandi romandi*** (Le Guillou, 1841)

***Polistes romandi*** Le Guillou, E.J.F. (1841). Description de 20 espèces nouvelles appartenant à diverses familles d'Hyménoptères. *Rev. Zool.* **4**: 322-325 [322]. Type data: holotype, MNHP \*F. adult, from N Australia (as "Aust. sept.").

Distribution: N coastal, N.T. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

***Ropalidia (Icarielia) romandi cabeti*** (Saussure, 1853)

***Icaria cabeti*** Saussure, H. de (1853). *Études sur la Famille des Vespides*. 2. Monographie des Guêpes Sociales, ou de la Tribu des Vespiens, ouvrage faisant suite à la Monographie des Guêpes Solitaires. Paris : Masson cxcix 256 pp. pls i-xxxvii (1853-1858) [26 pl iv fig 2, pl v fig 2]. Type data: lectotype, MNHP \*F. adult, from Tas. (doubtful), designation by Richards, O.W. (1978). The Australian social wasps (Hymenoptera : Vespidae). *Aust. J. Zool. Suppl. Ser.* **61**: 1-132.

Distribution: NE coastal, N Gulf, SE coastal, Qld., N.S.W.; possibly the N.S.W. specimens are strays, but common in Qld. Ecology: larva - sedentary, predator : adult - volant; social, nests of "paper".

# SPHECIDAE

## INTRODUCTION

This cosmopolitan family contains very small to very large solitary wasps. Australia has about 600 described species and subspecies in over 50 genera of which about a quarter are endemic. Adults are often collected on flowers or at nesting sites. Nests are made by burrowing in the ground, by using existing cavities in the ground, in dead wood or the pith of plants, by constructing mud cells in the open, on house walls or rocks or tree trunks, and by using abandoned mud nests. One genus (*Acanthostethus*) is cleptoparasitic. Adults of other genera provision their cells with insects - there are records from almost all the orders - or spiders or Collembola. Most genera exhibit some degree of prey specificity. *Bembix* is unusual in this respect, for while most northern hemisphere species studied prey on Diptera, about one third of the Australian species whose prey is known use other orders (Hymenoptera, Odonata and Neuroptera) and two species have been found to prey on more than one order of insects. Recent work on the biology of *Arpactophilus* sp., *Spilomena* sp. and *Pison* sp., not mentioned as a biological reference because the species were not identified, was published by Naumann (1983) and on *Lyroda* sp. by Evans & Hook (1984).

## References

- Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp.
- Evans, H.E. & Hook, A.W. (1984). Nesting behaviour of a *Lyroda* predator (Hymenoptera : Sphecidae) on *Tridactylus* (Orthoptera : Tridactylidae). *Aust. Entomol. Mag.* **11**: 16-18
- Evans, H.E. & West Eberhard, M.J. (1970). *The Wasps*. Ann Arbor : Univ. Michigan Press 265 pp.
- Naumann, I.D. (1983). The biology of mud nesting Hymenoptera (and their associates) and Isoptera in rock shelters of the Kakadu Region, Northern Territory. *Aust. Natl. Parks & Wldf. Serv. Spec. Publ.* **10** pp. 127-189

### ***Dolichurus*** Latreille, 1809

***Dolichurus*** Latreille, P.A. (1809). *Genera Crustaceorum et Insectorum secundem ordinem naturalem in familias disposita, iconibus exemplisque plurimis explicata*. Paris : A. Koenig Vol. 4 397 pp. [387]. Type species *Pompilus corniculus* Spinola, 1808 by subsequent designation, see Latreille, P.A. (1810). *Considérations Générales sur l'Ordre Naturel des Animaux Composant les Classes des Crustacés, des Arachnides, et des Insectes; avec un Tableau Méthodique de leurs Genres, Disposés en Familles*. Paris : F. Schoell 444 pp. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp.

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [66].

### ***Dolichurus carbonarius*** Smith, 1869

***Dolichurus carbonarius*** Smith, F. (1869). Descriptions of new genera and species of exotic Hymenoptera. *Trans. Entomol. Soc. Lond.* **1869**: 301-311 [303]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.



Distribution: NE coastal, NW coastal, Qld., W.A.; only published localities Mackay, Kuranda, Dunk Is., Brisbane and Champion Bay. Ecology: larva - sedentary, predator : adult - volant; prey Blattodea, nest in pre-existing cavity. Biological references: Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62-96 (behaviour); Riek, E.F. (1955). Australian Ampulicidae (Hymenoptera : Sphecoidea). *Aust. J. Zool.* **3**: 131-144 (redescription).

***Aphelotoma* Westwood, 1841**

***Aphelotoma* Westwood, J.O. (1841).** in, Proceedings of the Entomological Society of London. (Descriptions of the following exotic hymenopterous insects belonging to the family Sphegidae). *Ann. Mag. Nat. Hist.* (1) **7**: 151-152 [152]. Type species *Aphelotoma tasmanica* Westwood, 1841 by monotypy.

***Aphelotoma affinis* Turner, 1910**

***Aphelotoma affinis* Turner, R.E. (1910).** Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253-356 [341]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Townsville, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey Blattodea.

***Aphelotoma auricula* Riek, 1955**

***Aphelotoma auricula* Riek, E.F. (1955).** Australian Ampulicidae (Hymenoptera : Sphecoidea). *Aust. J. Zool.* **3**: 131-144 [139 pl 1 fig 8]. Type data: holotype, ANIC M. adult, from 10 mi S of Bowen, Qld.

Distribution: NE coastal, Qld.; only published localities near Bowen and Caloundra. Ecology: larva - sedentary, predator : adult - volant; prey Blattodea.

***Aphelotoma fuscata* Riek, 1955**

***Aphelotoma fuscata* Riek, E.F. (1955).** Australian Ampulicidae (Hymenoptera : Sphecoidea). *Aust. J. Zool.* **3**: 131-144 [139 pl 1 fig 7]. Type data: holotype, ANIC F. adult, from Catherine Hill, N.S.W.

Distribution: SE coastal, N.S.W.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey Blattodea.

***Aphelotoma melanogaster* Riek, 1955**

***Aphelotoma melanogaster* Riek, E.F. (1955).** Australian Ampulicidae (Hymenoptera : Sphecoidea). *Aust. J. Zool.* **3**: 131-144 [135 pl 1 figs 2-3]. Type data: holotype, ANIC M. adult, from Blundells, A.C.T.

Distribution: NE coastal, SE coastal, Murray-Darling basin, Qld., N.S.W., A.C.T. Ecology: larva - sedentary, predator : adult - volant; prey Blattodea.

***Aphelotoma nigricula* Riek, 1955**

***Aphelotoma nigricula* Riek, E.F. (1955).** Australian Ampulicidae (Hymenoptera : Sphecoidea). *Aust. J. Zool.* **3**: 131-144 [138 pl 1 fig 10]. Type data: holotype, ANIC M. adult, from Blundells, A.C.T.

Distribution: NE coastal, Murray-Darling basin, SE coastal, Qld., N.S.W., A.C.T.; only published localities Stanthorpe, Barrington Tops, Goulburn and Blundells. Ecology: larva - sedentary, predator : adult - volant; prey Blattodea.

***Aphelotoma rufiventris* Turner, 1914**

***Aphelotoma rufiventris* Turner, R.E. (1914).** New fossorial Hymenoptera from Australia and Tasmania. *Proc. Linn. Soc. N.S.W.* **38**: 608-623 [618]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, Qld.; only published localities Kuranda, Bowen, Stradbroke Is., Caloundra and Stanthorpe. Ecology: larva - sedentary, predator : adult - volant; prey Blattodea. Biological references: Riek, E.F. (1955). Australian Ampulicidae (Hymenoptera : Sphecoidea). *Aust. J. Zool.* **3**: 131-144 (redescription).

***Aphelotoma striaticollis* Turner, 1910**

***Aphelotoma striaticollis* Turner, R.E. (1910).** Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253-356 [341]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Townsville, Qld.

Distribution: NE coastal, Qld.; only published localities Townsville, Kuranda. Ecology: larva - sedentary, predator : adult - volant; prey Blattodea.

***Aphelotoma tasmanica* Westwood, 1841**

Taxonomic decision of Riek, E.F. (1955). Australian Ampulicidae (Hymenoptera : Sphecoidea). *Aust. J. Zool.* **3**: 131-144 [136-137].

***Aphelotoma tasmanica tasmanica* Westwood, 1841**

***Aphelotoma tasmanica* Westwood, J.O. (1841).** in Proceedings of the Entomological Society of London. (Descriptions of the following exotic hymenopterous insects belonging to the family Sphegidae). *Ann. Mag. Nat. Hist.* (1) **7**: 151-152 [152]. Type data: syntypes (probable), OUM or BMNH \*F. adult, from Tas.

Distribution: SE coastal, Vic., Tas. Ecology: larva - sedentary, predator : adult - volant; prey Blattodea.

***Aphelotoma tasmanica auriventris* Turner, 1907**

***Aphelotoma auriventris* Turner, R.E. (1907).** New species of Sphegidae from Australia. *Ann. Mag. Nat. Hist.* (7) **19**: 268-276 [269]. Type data: holotype, BMNH \*M. adult, from Vic.

Distribution: Murray-Darling basin, SE coastal, S Gulfs, SW coastal, A.C.T., Vic., S.A., W.A. Ecology: larva - sedentary, predator : adult - volant; prey Blattodea.

***Austrotoma* Riek, 1955**

***Austrotoma*** Riek, E.F. (1955). Australian Ampulicidae (Hymenoptera : Sphecoidea). *Aust. J. Zool.* 3: 131-144 [141]. Type species *Aphelotoma aterrima* Turner, 1907 by monotypy and original designation.

***Austrotoma aterrima* (Turner, 1907)**

***Aphelotoma aterrima*** Turner, R.E. (1907). New species of Sphegidae from Australia. *Ann. Mag. Nat. Hist.* (7) 19: 268-276 [268]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Kuranda and Mackay. Ecology: larva - sedentary, predator: adult - volant. Biological references: Riek, E.F. (1955). Australian Ampulicidae (Hymenoptera : Sphecoidea). *Aust. J. Zool.* 3: 131-144 (redescription, generic placement).

***Ampulex* Jurine, 1807**

***Ampulex*** Jurine, L. (1807). *Nouvelle Méthode de Classer les Hyménoptères et les Diptères*. Hyménoptères. Genève : J.J. Paschoud Vol. 1 319+4 pp. [132]. Type species *Ampulex fasciata* Jurine, 1807 by monotypy.

This group is widespread, mostly in the Ethiopian, Oriental, and Neotropical Regions, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [74]. Species now known not to occur in Australia: *Ampulex micans* Kohl, 1893 originally attributed to Australia or Mexico" vide Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [78].

***Ampulex compressa* (Fabricius, 1781)**

***Sphex compressa*** Fabricius, J.C. (1781). *Species insectorum exhibentes eorum differentias specificas, synonyma auctorum, loca natalia, metamorphosin adiectis observationibus, descriptionibus*. Hamburgi et Kilonii Vols i-ii [445]. Type data: holotype, BMNH \*F. adult, from Malabar.

Distribution: NE coastal, Qld.; also in the Oriental and Ethiopian Regions and Venezuela. Ecology: larva - sedentary, predator : adult - volant; nest in stems or crevices, prey Blattodea. Biological references: Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207-497 London : British Museum (generic placement); Krombein, K.V. (1979). Biosystematic studies of Ceylonese wasps, V : A monograph of the Ampulicidae

(Hymenoptera : Sphecoidea). *Smithson. Contrib. Zool.* 298: 1-29 (redescription, biology); Menke, A.S. & Yustiz, E. (1983). *Ampulex compressa* (F.) in Venezuela (Hymenoptera : Sphecoidea). *Proc. Entomol. Soc. Wash.* 85: 180.

***Chalybion* Dahlbom, 1843**

***Chalybion*** Dahlbom, A.G. (1843). *Hymenoptera Europaea Praecipue Borealia*; formis typicis nonnullis specierum generumve exoticorum aut extraneorum propter nexum systematicum associatis; per familias, genera, species et varietates disposita atque descripta. I. *Sphex* in sensu Linneano. Lund : Lundberg, Berolini Vol. 1 528 pp. (1843-1845) [21]. Type species *Sphex caeruleus* Linnaeus, 1767 [*non Sphex caeruleus* Linnaeus, 1758 (= *Pelopeus californicus* Saussure, 1867)] by subsequent designation, see Patton, W.H. (1881). Some characters useful in the study of the Sphecoidea. *Proc. Bost. Soc. Nat. Hist.* 20: 378-385. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp.

This group is mostly Old World, two species in North and Central America, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [98].

***Chalybion bengalense* (Dahlbom, 1845)**

***Pelopoeus bengalensis*** Dahlbom, A.G. (1845). *Hymenoptera Europaea Praecipue Borealia*; formis typicis nonnullis specierum generumve exoticorum aut extraneorum propter nexum systematicum associatis; per familias, genera, species et varietates disposita atque descripta. I. *Sphex* in sensu Linneano. Lund : Lundberg, Berolini Vol. 1 528 pp. (1843-1845) [433]. Type data: lectotype, UZM \*F. adult, from India, designation by van der Vecht, J. (1961). Hymenoptera Sphecoidea Fabriciana. *Zool. Verh. Leiden* 48: 1-85.

***Sphex violacea*** Fabricius, J.C. (1775). *Systema Entomologiae*, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus. Flensburgi et Lipsiae : Kortii xxvii 832 pp. [346]. Type data: lectotype, UZM \*adult, from Cape of Good Hope, designation by van der Vecht, J. (1961). Hymenoptera Sphecoidea Fabriciana. *Zool. Verh. Leiden* 48: 1-85.

Taxonomic decision of Kohl, F.F. (1918). Die Hautflüglergruppe "Sphecinae". iv. Teil. Die natürliche Gattung *Sceliphron* Klug (*Pelopoeus* Kirby). *Ann. Naturh. Hofmus. Wien* 32: 1-171 [54].

Distribution: NE coastal, Qld.; Cape York, also the Ethiopian, Oriental, and Palearctic Regions. Ecology: larva - sedentary, arboreal, predator : adult - volant; prey spiders, nest in pre-existing cavity. Biological references: Williams, F.X. (1928). The natural history of a Philippine nipa house with descriptions of new wasps. *Philipp. J. Sci.* 35: 53-118 (biology: as *violacea*).



***Sceliphron* Klug, 1801**

Taxonomic decision of Bohart, R. M. & Menke, A. S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [39].

***Sceliphron (Sceliphron)* Klug, 1801**

***Sceliphron*** Klug, J.C.F. (1801). Absonderung einiger Raupentödter und Vereinigung derselben zu einer neuen Gattung *Sceliphron*. Neue Schrift. Ges. Naturf. Freunde Berl. 3: 555–566 [561]. Type species *Spheg spirifex* Linnaeus, 1758 by subsequent designation, see Bingham, C.T. (1897). *The Fauna of British India, Including Ceylon and Burma*. Hymenoptera. Vol. I Wasps and Bees. London : Taylor & Francis xxx 579 pp. [235]. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [39].

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [103].

***Sceliphron (Sceliphron) caementarium* (Drury, 1770)**

***Spheg caementarium*** Drury, D. (1770). *Illustrations of Natural History*. London : White Vol. I 30+130 pp. pls 51 [105 pl 44 fig 6]. Type data: syntypes (probable), lost, from Jamaica.

Distribution: NE coastal, (Lake Eyre basin), Qld.; accidentally established in Brisbane, one specimen found in crate from North America in Alice Springs, also found in Europe, the Americas and many Pacific islands. Ecology: larva - sedentary, arboreal, predator : adult - volant; prey spiders, nest built of mud in sheltered place. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (list of synonyms, nest, biology); Evans, H.E. & Lin, C.S. (1956). Studies on the larvae of digger wasps (Hymenoptera, Sphecidae) Part I Sphecinae. *Trans. Am. Entomol. Soc.* **81**: 131–153 8 pls (larva); van der Vecht, J. & van Breugel, F.M.A. (1968). Revision of the nominate subgenus *Sceliphron* Latreille (Hymenoptera, Sphecidae) (Studies on the Sceliphronini, Part I). *Tijdschr. Entomol.* **111**: 185–255 (redescription); Naumann, I.D. (1983). The biology of mud nesting Hymenoptera (and their associates) and Isoptera in rock shelters of the Kakadu Region, Northern Territory. *Aust. Nat. Parks & Wildlife Service Spec. Publ.* **10** pp. 127–189 (Alice Springs record).

***Sceliphron (Sceliphron) laetum* (Smith, 1856)**

Taxonomic decision of van der Vecht, J. & van Breugel, F.M.A. (1968). Revision of the nominate subgenus

*Sceliphron* Latreille (Hymenoptera, Sphecidae) (studies on the Sceliphronini, Part I). *Tijdschr. Entomol.* **111**: 185–255 [250].

***Sceliphron (Sceliphron) laetum laetum* (Smith, 1856)**

***Pelopoeus laetus*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [229 pl 7 fig 1]. Type data: lectotype, BMNH \*F. adult, from MacIntyre River, Australia, designation by van der Vecht, J. & van Breugel, F.M.A. (1968). Revision of the nominate subgenus *Sceliphron* Latreille (Hymenoptera, Sphecidae) (Studies on the Sceliphronini, Part I). *Tijdschr. Entomol.* **111**: 185–255 [234].

***Sceliphron laetum cygnorum*** Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253–356 [343]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from SW Australia.

Distribution: NE coastal, Murray-Darling basin, SE coastal, Lake Eyre basin, S Gulfs, W plateau, SW coastal, N coastal, Qld., N.S.W., Vic., S.A., W.A., N.T.; also New Guinea, Indonesia and Pacific islands. Ecology: larva - sedentary, arboreal, predator : adult - volant; prey spiders, nest built of mud in sheltered place. Biological references: Maindron, M. (1878). Notes pour servir à l'histoire des Hyménoptères de l'Archipel Indien et de la Nouvelle-Guinée, i. Observations sur quelques Sphegiens (g. *Pelopaeus*) de l'Archipel Indien. (Métamorphoses. - Descriptions d'espèces). *Ann. Soc. Entomol. Fr.* (5) **8**: 385–398 (larva); Whittell, H.R. (1884). On some habits of *Pelopoeus laetus* and a species of *Larrada*. *Proc. Linn. Soc. N.S.W.* **8**: 29–33 (biology); Roth, H.L. (1885). Notes on the habits of some Australian Hymenoptera Aculeata. (With description of a new species by W.F. Kirby). *J. Linn. Soc. Zool.* **18**: 318–328 (biology); McCarthy, T. (1917). Some observations on solitary wasps at Hay, N.S.W.. *Aust. Nat.* **3**: 195–200 (biology); Brewster, M.N., Brewster, A.A. & Crouch, N. (1920). *Life Stories of Australian Insects*. Sydney : Dymock's Book Arcade 424 pp. (biology); Smith, A. (1974). Mud wasps. A study of their nests reveals an interesting series of builders and renters. *Wildlife, Lond.* **16**(6) : 300–301 (biology); Smith, A. (1979). Life strategy and mortality factors of *Sceliphron laetum* (Smith) (Hymenoptera : Sphecidae) in Australia. *Aust. J. Ecol.* **4**: 181–186; Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp.; Naumann, I.D. (1983). The biology of mud nesting Hymenoptera (and their associates) and Isoptera in rock shelters of the



Kakadu Region, Northern Territory. *Aust. Nat. Parks & Wildlife Service Spec. Publ.* 10 pp. 127–189 (biology, parasites).

***Sceliphron (Prosceliphron)* van der Vecht, 1968**

***Prosceliphron*** van der Vecht, J. & van Breugel, F.M.A. (1968). Revision of the nominate subgenus *Sceliphron* Latreille (Hymenoptera, Sphecidae) (Studies on the Sceliphronini, Part I). *Tijdschr. Entomol.* 111: 185–255 [192] [described with subgeneric rank in *Sceliphron* Klug, 1801]. Type species *Pelopaeus coromandelicus* Lepeletier, 1845 by original designation.

This group is also found in the Palearctic and Oriental Regions, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [103].

***Sceliphron (Prosceliphron) formosum* (Smith, 1856)**

***Pelopaeus formosus*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [230]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: NE coastal, SE coastal, SW coastal, N coastal, Qld., N.S.W., W.A., N.T.; also New Guinea and Indonesia. Ecology: larva - sedentary, arboreal, predator : adult - volant; prey spiders, nest built of mud in sheltered place. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement); Callan, E.M. (1981). Further records of *Macrosiagon* (Coleoptera : Rhipiphoridae) reared from eumenid and sphecid wasps in Australia. *Aust. Entomol. Mag.* 7: 81–83 (parasite); Naumann, I.D. (1983). The biology of mud nesting Hymenoptera (and their associates) and Isoptera in rock shelters of the Kakadu Region, Northern Territory. *Aust. Nat. Parks & Wildlife Service Spec. Publ.* 10 pp. 127–189.

***Sphex* Linnaeus, 1758**

Taxonomic decision of Bohart, R. M. & Menke, A. S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [39].

***Sphex (Sphex)* Linnaeus, 1758**

***Sphex*** Linnaeus, C. von (1758). *Systema Naturae* per Regna Tria Naturae, secundum classes, ordines, genera, species, cum characteribus, differentiis, synonymis, locis. Holmiae : Laurentii Salvii 10th edn. Vol.1 823 pp. [569]. Type species *Pepsis flavipennis* Fabricius, 1793 by subsequent designation, see International Commission on Zoological Nomenclature (1946). Opinion 180. On the status of the names *Sphex* Linnaeus, 1758, and

*Ammophila* Kirby, 1798 (Class Insecta, Order Hymenoptera). *Opin. Decl. Int. Comm. Zool. Nomen.* 2: 569–585 [571]. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [39].

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [109]. Species now known not to occur in Australia: *Sphex clavigera* Smith, 1856 a Holarctic species *vide* van der Vecht, J. (1973). Contribution to the taxonomy of the Oriental and Australian Sphecini (Hymenoptera, Sphecoidea). *Proc. K. Ned. Akad. Wet. (c)* 76: 341–353 [351] [as *Isodontia clavigera* (Smith)]; *Sphex princeps* Kohl, 1890 now in synonymy with a North American species *vide* Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [115].

***Sphex (Sphex) ahasverus* Kohl, 1890**

***Sphex (Sphex) ahasverus*** Kohl, F.F. (1890). Die Hymenopterengruppe der Sphecinen. I Monographie der natürlichen Gattung *Sphex* Linné (*sens.lat.*). Abt. I–II *Ann. Naturh. Hofmus. Wien* 5: 77–194, 317–462 [397]. Type data: syntypes (probable), whereabouts unknown, from S.A.

Distribution: S.A.; type locality only as S.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Sphex (Sphex) argentatus* Fabricius, 1787**

***Sphex argentatus*** Fabricius, J.C. (1787). *Mantissa insectorum sistens eorum species nuper detectas adiectis characteribus genericis, differentiis specificis, emendationibus, observationibus*. Hafniae vols i–ii [274]. Type data: lectotype, UZM \*F. adult, from Coromandel, designation by van der Vecht, J. (1961). Hymenoptera Sphecoidea Fabriciana. *Zool. Verh. Leiden* 48: 1–85.

***Sphex umbrosus*** Christ, J.L. (1791). *Naturgeschichte, Classification und Nomenclatur der Insecten vom Bienen, Wespen und Ameisengeschlecht*. Frankfurt-am-Main : Hermann 535 pp. col pls 60 [293]. Type data: syntypes (probable), lost, from type locality unknown.

Taxonomic decision of van der Vecht, J. (1973). Contribution to the taxonomy of the Oriental and Australian Sphecini (Hymenoptera, Sphecoidea). *Proc. K. Ned. Akad. Wet. (c)* 76: 341–353 [341].

Distribution: NE coastal, N coastal, Qld., N.T.; also in New Guinea, Africa and Oriental Region. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera. Biological references: Evans, H.E. & Lin, C.S. (1956). Studies on the larvae of digger wasps (Hymenoptera, Sphecidae) Part I Sphecinae. *Trans. Am. Entomol. Soc.* 81: 131–153 8 pls (larva).

***Sphex (Sphex) basilicus* (Turner, 1915)**

***Chlorion (Proterosphegus) basilicus*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62–96 [65]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from N Qld. (probably Cape York Peninsula).

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Sphex (Sphex) bilobatus* Kohl, 1895**

***Sphex canescens*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [246] [*non Sphex canescens* Dahlbom, 1843]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Australia.

***Sphex bilobatus*** Kohl, F.F. (1895). Zur Monographie der natürlichen Gattung *Sphex* Linné. *Ann. Naturh. Hofmus. Wien* **10**: 42–74 [59 pl 4 figs 10, 24]. Type data: syntypes (probable), ZMB \*adult, from Adelaide, S.A.

Taxonomic decision of Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253–356 [346].

Distribution: SE coastal, Murray-Darling basin, S Gulfs, Lake Eyre basin, N.S.W., A.C.T., S.A., N.T.; only published localities Como, Cumberland, Adelaide and Crown Point. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Tettigoniidae). Biological references: Rayment, T. (1946). Habits of a sphegid wasp (*Sphex canescens*). *Vict. Nat.* **63**: 185 (biology); Evans, H.E., Hook, A.W. & Matthews, R.W. (1982). Nesting behaviour of Australian wasps of the genus *Sphex* (Hymenoptera, Sphecidae). *J. Nat. Hist.* **16**: 219–225 (biology).

***Sphex (Sphex) carbonicolor* van der Vecht, 1973**

***Sphex carbonaria*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [247] [*non Sphex carbonaria* Scopoli, 1763]. Type data: holotype, BMNH \*F. adult, from Sydney, N.S.W.

***Sphex carbonicolor*** van der Vecht, J. (1973). Contribution to the taxonomy of the Oriental and Australian Sphecini (Hymenoptera, Sphecoidea). *Proc. K. Ned. Akad. Wet. (c)* **76**: 341–353 [342] [*nom. nov.* for *Sphex carbonaria* Smith, 1856].

Distribution: SE coastal, Qld., N.S.W., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Sphex (Sphex) cognatus* Smith, 1856**

***Sphex cognata*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [248]. Type data: holotype, BMNH 21.692 \*F. adult (seen 1929 by L.F. Graham), from Australia.

***Sphex amator*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [246]. Type data: holotype, OUM \*M. adult, from Australia.

***Sphex opulenta*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [250]. Type data: holotype, BMNH 21.693 \*M. adult (seen 1929 by L.F. Graham), from Richmond R., N.S.W.

***Sphex formosa*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [254]. Type data: holotype, BMNH 21.694 \*F. adult (seen 1929 by L.F. Graham), from Ceram.

Taxonomic decision of van der Vecht, J. (1973). Contribution to the taxonomy of the Oriental and Australian Sphecini (Hymenoptera, Sphecoidea). *Proc. K. Ned. Akad. Wet. (c)* **76**: 341–353 [342].

Distribution: NE coastal, SE coastal, Murray-Darling basin, S Gulfs, Qld., N.S.W., A.C.T., S.A.; also in New Guinea and Oriental Region. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Tettigoniidae). Biological references: Ribi, W.A. (1978). A unique hymenopteran compound eye, the retina fine structure of the digger wasp *Sphex cognatus* Smith (Hymenoptera, Sphecidae). *Zool. Jb. Anat.* **100**: 299–342 (eye structure); Ribi, W.A. & Ribi, L. (1979). Natural history of the Australian digger wasp *Sphex cognatus* Smith (Hymenoptera, Sphecidae). *J. Nat. Hist.* **13**: 693–701; Evans, H.E., Hook, A.W. & Matthews, R.W. (1982). Nesting behaviour of Australian wasps of the genus *Sphex* (Hymenoptera, Sphecidae). *J. Nat. Hist.* **16**: 219–225 (biology).

***Sphex (Sphex) darwiniensis* Turner, 1912**

***Sphex darwiniensis*** Turner, R.E. (1912). Notes on fossorial Hymenoptera. IX. On some new species from the Australian and Austro-Malayan regions. *Ann. Mag. Nat. Hist.* (8) **10**: 48–63 [56]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Port Darwin, N.T.

Distribution: N coastal, N.T.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Sphex (Sphex) decoratus* Smith, 1873**

***Sphex decorata*** Smith, F. (1873). Natural history notices. Insects, Hymenoptera Aculeata. pp. 456–463 pls xliii–xlv in Brenchley, J.B. *Jottings During the Cruise of H.M.S. Curaçoa among the South Sea Islands in 1865*. London : Longmans, Green & Co. [461 pl 44 fig 4]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from NW coast of Australia.

Distribution: NE coastal, NW coastal, Qld., W.A.; only published localities N Qld. and NW coast of Australia. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Sphex (Sphex) ephippium* Smith, 1856**

***Sphex ephippium*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [249 pl 6 fig 2]. Type data: holotype, BMNH 21.706 \*F. adult (seen 1929 by L.F. Graham), from Port Essington, N.T.

Distribution: NE coastal, N coastal, Qld., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Tettigoniidae). Biological references: Roth, H.L. (1885). Notes on the habits of some Australian Hymenoptera Aculeata. (With description of a new species by W.F. Kirby). *J. Linn. Soc. (Zool.)* **18**: 318–328 (nest, ?prey); Evans, H.E., Hook, A.W. & Matthews, R.W. (1982). Nesting behaviour of Australian wasps of the genus *Sphex* (Hymenoptera, Sphecidae). *J. Nat. Hist.* **16**: 219–225 (biology).

***Sphex (Sphex) ermineus* Kohl, 1890**

***Sphex (Sphex) ermineus*** Kohl, F.F. (1890). Die Hymenopterengruppe der Sphecinen. I Monographie der natürlichen Gattung *Sphex* Linné (*sens.lat.*). Abt. I–II *Ann. Naturh. Hofmus. Wien* **5**: 77–194, 317–462 [412]. Type data: syntypes (probable), whereabouts unknown, from Swan River, W.A.

Distribution: SW coastal, N coastal, Qld., N.S.W., Vic., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Sphex (Sphex) finschii* Kohl, 1890**

***Sphex finschii*** Kohl, F.F. (1890). Die Hymenopterengruppe der Sphecinen. I Monographie der natürlichen Gattung *Sphex* Linné (*sens.lat.*). Abt. I–II *Ann. Naturh. Hofmus. Wien* **5**: 77–194, 317–462 [412]. Type data: syntypes (probable), ZMB \*adult, from New Britain.

Distribution: Australia but no specific localities available, also in New Guinea, Solomon Is. and Indonesia. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera. Biological references: Bohart, R.M. &

Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (Australian record).

***Sphex (Sphex) formosellus* van der Vecht, 1957**

***Sphex formosellus*** van der Vecht, J. (1957). The Sphecoidea of the Lesser Sunda Islands (Hym.). I. Sphecinae. *Verh. Naturf. Ges. Basel* **68**: 358–372 [366]. Type data: syntypes (probable), RMNH \*adult, from Timor.

Distribution: SW coastal, W.A.; only published locality SW Australia, also in Indonesia. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Sphex (Sphex) fumipennis* Smith, 1856**

***Sphex fumipennis*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [249]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

Distribution: NE coastal, SE coastal, Murray-Darling basin, S Gulfs, Qld., N.S.W., A.C.T., S.A., W.A.; also on New Caledonia, New Hebrides and Loyalty Is. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (subspecies listed).

***Sphex (Sphex) gilberti* Turner, 1908**

***Sphex gilberti*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [468]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay and North-West Islet, Capricorn Group. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Sphex (Sphex) luctuosus* Smith, 1856**

***Sphex luctuosa*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [250]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

Distribution: Lake Eyre basin, SW coastal, Vic., S.A., W.A., N.T.; only published localities Vic., Dalhousie, Swan River and Alice Springs. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.



***Sphex (Sphex) mimulus* Turner, 1910**

***Sphex mimulus*** Turner, R.E. (1910). New fossorial Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* **1910**: 407–429 pl 50 [419]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Sphex (Sphex) modestus* Smith, 1856**

***Sphex modesta*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London: British Museum [248]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia.

***Sphex (Sphex) dolichocerus*** Kohl, F.F. (1890). Die Hymenopterengruppe der Sphecinen. I Monographie der natürlichen Gattung *Sphex* Linné (*sens.lat.*). Abt. I–II *Ann. Naturh. Hofmus. Wien* **5**: 77–194, 317–462 [390]. Type data: syntypes (probable), MNH \*M. adult, from Australia.

***Sphex bannitus*** Kohl, F.F. (1895). Zur Monographie der natürlichen Gattung *Sphex* Linné. *Ann. Naturh. Hofmus. Wien* **10**: 42–74 [61 pl 4 fig 21]. Type data: syntypes (probable), ZMB \*F. adult, from Australia (as New Holland).

Taxonomic decision of Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253–356 [346].

Distribution: SE coastal, Lake Eyre basin, SW coastal, N Gulf, N.S.W., W.A., N.T.; only published localities Como, Perth, Alexandria and Urinilla Springs to Deep Well. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Sphex (Sphex) resplendens* Kohl, 1885**

***Sphex nitidiventris*** Smith, F. (1859). Catalogue of hymenopterous insects collected by Mr. A.R. Wallace at the islands of Aru and Key. *J. Linn. Soc. Lond. Zool.* **3**: 132–178 [158] [*non Sphex nitidiventris* Spinola, 1851]. Type data: holotype, OUM \*F. adult.

***Sphex gratiosa*** Smith, F. (1859). Catalogue of hymenopterous insects collected by Mr. A.R. Wallace at the islands of Aru and Key. *J. Linn. Soc. Lond. Zool.* **3**: 132–178 [158] [*non Sphex gratiosa* Smith, 1856]. Type data: holotype, OUM \*M. adult, from Aru.

***Sphex resplendens*** Kohl, F.F. (1885). Die Gattungen der Sphecinen und die palaarktischen *Sphex*-Arten. *Természetr. Füzet.* **9**: 154–207 pls 7–8 [200] [*nom. nov.* for *Sphex nitidiventris* Smith, 1859].

***Sphex gratiosissimus*** Dalla Torre, C.G. de (1897). *Catalogus Hymenopterorum Hucusque Descriptorum Systematicus et Synonymicus*. Fossores (Sphegidae). Leipzig : G. Engelmann Vol. 8 viii 749 pp. [424] [*nom. nov.* for *Sphex gratiosa* Smith, 1859].

***Sphex wallacei*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with

descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [467] [*nom. nov.* for *Sphex nitidiventris* Smith, 1859].

Taxonomic decision of van der Vecht, J. (1973). Contribution to the taxonomy of the Oriental and Australian Sphecini (Hymenoptera, Sphecoidea). *Proc. K. Ned. Akad. Wet. (c)* **76**: 341–353 [348].

Distribution: NE coastal, Qld.; Indonesian species, N Qld. records may be in error. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Sphex (Sphex) rhodosoma* (Turner, 1915)**

***Chlorion (Proterosphex) rhodosoma*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist. (8)* **15**: 62–96 [65]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cue, Cunderdin, W.A..

Distribution: SW coastal, W plateau, W.A.; only published localities Cue and Cunderdin. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Sphex (Sphex) rugifer* Kohl, 1890**

***Sphex (Sphex) rugifer*** Kohl, F.F. (1890). Die Hymenopterengruppe der Sphecinen. I Monographie der natürlichen Gattung *Sphex* Linné (*sens.lat.*). Abt. I–II *Ann. Naturh. Hofmus. Wien* **5**: 77–194, 317–462 [393]. Type data: syntypes, ZMB \*F. adult, NHMW \*F. adult, from Swan River, W.A.

Distribution: SW coastal, NW coastal, W.A.; only published localities Swan River, Perth and Geraldton. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Sphex (Sphex) semifossulatus* van der Vecht, 1973**

***Sphex argentifrons*** Smith, F. (1868). Descriptions of aculeate Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* **1868**: 231–258 [248] [*non Sphex argentifrons* Lepeletier, 1845]. Type data: holotype, BMNH 21.709 \*M. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

***Sphex semifossulatus*** van der Vecht, J. (1973). Contribution to the taxonomy of the Oriental and Australian Sphecini (Hymenoptera, Sphecoidea). *Proc. K. Ned. Akad. Wet. (c)* **76**: 341–353 [349] [*nom. nov.* for *Sphex argentifrons* Smith, 1868].

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Sphex (Sphex) sericeus* (Fabricius, 1804)**

Taxonomic decision of van der Vecht, J. & Krombein, K.V. (1955). The subspecies of *Sphex sericeus* (Fabr.) (= *S. aurulentus* auct. nec Fabr. 1787) (Hymenoptera, Sphecidae). *Idea* 10: 33–43 [43].

***Sphex (Sphex) sericeus godeffroyi* Saussure, 1869**

*Sphex godeffroyi* Saussure, H. de (1869). Hyménoptères divers du Musée Godeffroy. *Stettin. Entomol. Ztg.* 30: 53–64 [57]. Type data: syntypes (probable), MGH \*F. adult, from Cape York, Qld.

*Sphex aurifex* Smith, F. (1873). Natural history notices. Insects, Hymenoptera Aculeata. pp. 456–463 pls xliii–xlv in Brenchley, J.B. *Jottings During the Cruise of H.M.S. Curaçoa among the South Sea Islands in 1865*. London : Longmans, Green & Co. [460 pl 44 fig 3]. Type data: syntypes (probable), BMNH \*adult, from NW coast of Australia.

Distribution: NE coastal, NW coastal, Qld. W.A.; only published localities Cape York, Duaringa, Babinda and NW coast, also on New Guinea. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a generic revision*. Berkeley : Univ. California Press ix 695 pp. (Australian record).

***Sphex (Sphex) staudingeri* Gribodo, 1894**

*Sphex staudingeri* Gribodo, G. (1894). Hymenopterorum novorum diagnoses praecursoriae. *Miscnea Entomol.* 2: 2–3, 22–23 [2]. Type data: syntypes (probable), whereabouts unknown, from New Guinea.

Distribution: Australia but no available specific localities, also on New Guinea. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Sphex (Sphex) vestitus* Smith, 1856**

*Sphex vestita* Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [248]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia.

*Sphex praetexta* Smith, F. (1873). Natural history notices. Insects, Hymenoptera Aculeata. pp. 456–463 pls xliii–xlv in Brenchley, J.B. *Jottings During the Cruise of H.M.S. Curaçoa among the South Sea Islands in 1865*. London : Longmans, Green & Co. [461 pl 44 fig 5]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Moreton Bay, Qld.

*Sphex (Sphex) imperialis* Kohl, F.F. (1890). Die Hymenopterengruppe der Sphecinen. I Monographie der natürlichen Gattung *Sphex* Linné (*sens.lat.*). Abt. I–II *Ann. Naturh. Hofmus. Wien* 5: 77–194, 317–462 [398]. Type data: syntypes (probable), whereabouts unknown, from Gayndah, Qld.

Taxonomic decision of Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* 1910: 253–356 [345].

Distribution: NE coastal, Qld.; only published localities Gayndah, Mackay, Cairns and Moreton Bay. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Isodontia* Patton, 1881**

*Isodontia* Patton, W.H. (1881). Some characters useful in the study of the Sphecidae. *Proc. Bost. Soc. Nat. Hist.* 20: 378–385 [380]. Type species *Sphex philadelphicus* Lepeletier, 1845 by original designation.

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [119].

***Isodontia abdita* (Kohl, 1895)**

Taxonomic decision of Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* 1910: 253–356.

***Isodontia abdita nugenti* (Turner, 1910)**

*Sphex (Isodontia) abditus nugenti* Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* 1910: 253–356 [343]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey Orthoptera, nest in pre-existing cavity.

***Isodontia albohirta* (Turner, 1908)**

*Sphex (Isodontia) albohirtus* Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457–535 pl xxvi [466]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay and Cairns, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey Orthoptera, nest in pre-existing cavity.

***Isodontia aurifrons* (Smith, 1859)**

*Sphex aurifrons* Smith, F. (1859). *Catalogue of hymenopterous insects collected by Mr. A.R. Wallace at the islands of Aru and Key*. *J. Linn. Soc. Lond. Zool.* 3: 132–178 [157]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Aru.

Distribution: NE coastal, Qld.; described from Aru, ranges from India to N Qld. Ecology: larva - sedentary, predator : adult - volant; prey Orthoptera, nest in pre-existing cavity. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Isodontia nigella* (Smith, 1856)**

***Spheg nigella*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207-497 London: British Museum [255]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Shanghai.

Distribution: NE coastal, SE coastal, SW coastal, Qld., N.S.W., Tas., W.A.; wide ranging in Australia and eastern Asia. Ecology: larva - sedentary, predator : adult - volant; prey Orthoptera, nest in pre-existing cavity, nest closed with grass. Biological references: Patton, W.H. (1881). Some characters useful in the study of the Sphecidae. *Proc. Bost. Soc. Nat. Hist.* **20**: 378-385 (generic placement); Hacker, H. (1913). Some field notes on Queensland insects. *Mem. Qd. Mus.* **2**: 96-100 (behaviour); Tsuneki, K. (1963). Comparative studies on the nesting biology of the genus *Spheg* (s.l.) in East Asia (Hymenoptera, Sphecidae). *Mem. Fac. Lib. Arts Fukui Univ.* (2, Nat. Sci.) **13**: 13-78 (biology).

***Isodontia obscurella* (Smith, 1856)**

***Spheg obscurella*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207-497 London: British Museum [251]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Tas. (as Van Diemen's Land).

Distribution: Tas.; only published locality Hobart. Ecology: larva - sedentary, predator : adult - volant; prey Orthoptera, nest in pre-existing cavity. Biological references: van der Vecht, J. (1973). Contribution to the taxonomy of the Oriental and Australian Sphecini (Hymenoptera, Sphecoidea). *Proc. K. Ned. Akad. Wet. (c)* **76**: 341-353 (generic placement).

***Isodontia vidua* (Smith, 1856)**

***Spheg vidua*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207-497 London: British Museum [249]. Type data: holotype, OUM \*F. adult, from N.S.W., see van der Vecht, J. (1973). Contribution to the taxonomy of the Oriental and Australian Sphecini (Hymenoptera, Sphecoidea). *Proc. K. Ned. Akad. Wet. (c)* **76**: 341-353 [351].

Distribution: S Gulfs, N.S.W., S.A.; only published localities N.S.W. and Adelaide. Ecology: larva - sedentary, predator : adult - volant; prey Orthoptera, nest in pre-existing cavity. Biological references: van der Vecht, J. (1973). Contribution to the taxonomy of the Oriental and Australian Sphecini (Hymenoptera, Sphecoidea). *Proc. K. Ned. Akad. Wet. (c)* **76**: 341-353 (generic placement).

***Palmodes* Kohl, 1890**

***Palmodes*** Kohl, F.F. (1890). Die Hymenopterengruppe der Sphecinen. I Monographie der natürlichen Gattung *Spheg* Linné (sens. lat.). Abt. I-II *Ann. Naturh. Hofmus. Wien* **5**: 77-194, 317-462 [112] [described with subgeneric rank in *Spheg* Linnaeus, 1758]. Type species *Spheg occitanicus* Lepeletier and Serville, 1828 by subsequent designation, see Fernald, H.T. (1906). The digger wasps of North America and the West Indies belonging to the subfamily Chlorioninae. *Proc. U.S. Natl. Mus.* **31**: 291-423. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp.

This group is non Australian, found only in the Holarctic Region, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [124]. Species now known not to occur in Australia: *Palmodes australis* (Saussure, 1867) a Palaearctic species (described in *Harpactopus*) and *Palmodes sagax* (Kohl, 1890) probably a Palaearctic species (described in *Spheg* (*Palmodes*)) vide van der Vecht, J. (1973). Contribution to the taxonomy of the Oriental and Australian Sphecini (Hymenoptera, Sphecoidea). *Proc. K. Ned. Akad. Wet. (c)* **76**: 341-353 [352].

***Prionyx* Van der Linden, 1827**

***Prionyx*** Van der Linden, P.L. (1827). Observations sur les Hyménoptères d'Europe de la famille des fouisseurs. Part 1. *Mém. Acad. R. Sci. Lettr. Belg.* **4**: 271-367 [362]. Type species *Ammophila kirbii* Van der Linden, 1827 by monotypy. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [39].

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [128].

***Prionyx globosus* (Smith, 1856)**

***Spheg globosa*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207-497 London: British Museum [251]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Tas. (as Van Diemen's Land).

Distribution: NE coastal, Murray-Darling basin, SE coastal, SW coastal, Qld., N.S.W., A.C.T., Vic., Tas., W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Acrididae). Biological references: Bohart, R.M. & Menke, A.S. (1963). A reclassification of the Sphecinae with a revision of the Nearctic species of the tribes Sceliphronini and Sphecini (Hymenoptera, Sphecidae). *Univ. Calif. Publs. Entomol.* **30**: 91-182 (generic placement);



Chandler, L.G. (1928). Notes on two grasshopper-wasps. *Vict. Nat.* **45**: 176–181 (biology); Evans, H.E., Hook, A.W. & Matthews, R.W. (1982). Nesting behaviour of Australian wasps of the genus *Sphex* (Hymenoptera, Sphecidae). *J. Nat. Hist.* **16**: 219–225 (biology).

***Prionyx saevus* (Smith, 1856)**

***Harpactus saevus* Smith, F. (1856).** *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [265]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Swan River, Cape Upstart, W.A.

Distribution: Murray-Darling basin, SE coastal, Lake Eyre basin, SW coastal, N coastal, Qld., N.S.W., A.C.T., W.A.; central Australia, also in Amboina. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Acrididae). Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement); Common, I.F.B. (1948). The yellow-winged locust, *Gastrimargus musicus* Fabr., in central Queensland. *Qd. J. Agric. Sci.* **5**: 153–219 (prey); Evans, H.E., Hook, A.W. & Matthews, R.W. (1982). Nesting behaviour of Australian wasps of the genus *Sphex* (Hymenoptera, Sphecidae). *J. Nat. Hist.* **16**: 219–225 (biology); Baker, G.L. & Pigott, R. (1983). Parasitism of the Australian plague locust *Chortoicetes terminifera* (Walker) (Orthoptera : Acrididae) by *Prionyx saevus* (Smith) (Hymenoptera : Sphecidae). *Aust. Entomol. Mag.* **10**: 67–74.

***Parapsammophila* Taschenberg, 1869**

***Parapsammophila* Taschenberg, E. (1869).** Die Sphegidae des zoologischen Museums der Universität in Halle. *Z. Naturw.* **34**: 407–435 [429]. Type species *Parapsammophila miles* Taschenberg, 1869 by subsequent designation, see Pate, V.S.L. (1937). The generic names of the sphecid wasps and their type species. *Mem. Am. Entomol. Soc.* **9**: 1–103 [48].

This group is also found in the Old World, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [137].

***Parapsammophila eremophila* (Turner, 1910)**

***Ammophila (Parapsammophila) eremophila* Turner, R.E. (1910).** Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253–356 [342 pl 32 fig 12]. Type data: syntypes (probable), BMNH \*M. adult, from Hermannsburg, N.T.

Distribution: Lake Eyre basin, N.T.; type locality only. Ecology: larva - sedentary, predator : adult - volant.

***Podalonia* Fernald, 1927**

***Podalonia* Fernald, H.T. (1927).** The digger wasps of North America of the genus *Podalonia* (*Psammophila*). *Proc. U.S. Natl. Mus.* **71**(2681) : 1–42 [11]. Type species *Ammophila violaceipennis* Lepeletier, 1845 by subsequent designation, see International Commission on Zoological Nomenclature (1968). Opinion 857. *Podalonia* Fernald, 1927 (Insecta, Hymenoptera) : validation and designation of a type-species under the plenary powers. *Bull. Zool. Nomen.* **25**: 88–89. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp.

This group is found worldwide except in South America, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [141].

***Podalonia tydei* (Le Guillou, 1841)**

Taxonomic decision of Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [145].

***Podalonia tydei suspiciosa* (Smith, 1856)**

***Ammophila suspiciosa* Smith, F. (1856).** *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [214]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from NW Coast, Swan River, Hunter River, "W.A.

Distribution: NE coastal, Murray-Darling basin, SE coastal, S Gulfs, Lake Eyre basin, SW coastal, N coastal, Qld., N.S.W., A.C.T., Vic., Tas., S.A., W.A.; also in New Zealand. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Lepidoptera larvae. Biological references: Riek, E.F. (1970). Hymenoptera. pp. 867–959 in C.S.I.R.O. *The Insects of Australia*. Carlton : Melbourne Univ. Press xiv 1029 pp. (generic placement); McCarthy, T. (1917). Some observations on solitary wasps at Hay, N.S.W. *Aust. Nat.* **3**: 195–200 (behaviour); Chandler, L.G. (1925). Habits of the sand-wasp. *Vict. Nat.* **42**: 107–114 (behaviour); Bristowe, W.S. (1971). The habits of a West Australian sphecid wasp. *Entomologist* **104**: 42–44 (behaviour); Faulds, W. (1978). Notes on an Australian sphecid wasp, *Podalonia suspiciosa* (Hymenoptera : Sphecidae), now established in New Zealand. *N.Z. Entomol.* **6**: 312–313.

***Ammophila* Kirby, 1798**

***Ammophila* Kirby, W. (1798).** *Ammophila*, a new genus of insects in the class Hymenoptera, including the *Sphex sabulosa* of Linnaeus. *Trans. Linn. Soc. Lond.* **4**: 195–212 [199]. Type species *Sphex sabulosa* Linnaeus, 1758 by subsequent designation, see International Commission on Zoological Nomenclature (1946).

Opinion 180. On the status of the names *Sphex* Linnaeus, 1758, and *Ammophila* Kirby, 1798 (Class Insecta, Order Hymenoptera). *Opin. Decl. Int. Comm. Zool. Nomen.* 2: 569–585 [571]. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [39].

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [147].

***Ammophila ardens* Smith, 1868**

***Ammophila ardens*** Smith, F. (1868). Descriptions of aculeate Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* 1868: 231–258 [247]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

Distribution: NE coastal, SW coastal, Qld., W.A.; only published localities Mackay and Swan River. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Lepidoptera larvae.

***Ammophila atripes* Smith, 1852**

***Ammophila atripes*** Smith, F. (1852). Descriptions of new species of hymenopterous insects, with notes on their economy by Ezra T. Downes Esq.. *Ann. Mag. Nat. Hist.* (2) 9: 44–50 [46]. Type data: syntypes (probable), whereabouts unknown, from India.

Distribution: N coastal, N.T.; N.T. records (from Katherine, Darwin, Burnside) doubtful, the species is found in India, S and SE Asia. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey larval Lepidoptera. Biological references: Tsuneki, K. (1967). Studies on the Formosan Sphecidae (III). The subfamily Sphecinae with special reference to the genus *Ammophila* in eastern Asia (Hymenoptera). *Etizenia* 26: 1–824 (redescription); Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (species from Oriental Region).

***Ammophila aurifera* Turner, 1908**

***Ammophila aurifera*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457–535 [464 pl xxvi fig 3]. Type data: syntypes (probable), BMNH \*M., F. adult (seen 1929 by L.F. Graham), from Port Darwin, N.T.

Distribution: N coastal, N.T.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Lepidoptera larvae.

***Ammophila clavus* (Fabricius, 1775)**

***Sphex clavus*** Fabricius, J.C. (1775). *Systema Entomologiae*, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus,

observationibus. Flensburgi et Lipsiae : Kortii xxvii 832 pp. [348]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

Distribution: NE coastal, N coastal, Qld., W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Lepidoptera larvae. Biological references: Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum (generic placement); Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457–535 pl xxvi (redescription); Tsuneki, K. (1967). Studies on the Formosan Sphecidae (III). The subfamily Sphecinae with special reference to the genus *Ammophila* in eastern Asia (Hymenoptera). *Etizenia* 26: 1–24 (non-Australian subspecies).

***Ammophila eyrensis* Turner, 1908**

***Ammophila eyrensis*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457–535 pl xxvi [465]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Killalpanima, S.A.

Distribution: Lake Eyre basin, S.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Lepidoptera larvae.

***Ammophila instabilis* Smith, 1856**

***Ammophila instabilis*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [214]. Type data: holotype, BMNH \*F. adult, from Swan River, Port Essington, Australia".

***Ammophila impatiens*** Smith, F. (1868). Descriptions of aculeate Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* 1868: 231–258 [247]. Type data: syntypes (probable), BMNH \*F. adult, from Champion Bay, W.A.

Taxonomic decision of Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457–535 pl xxvi [466].

Distribution: NE coastal, Lake Eyre basin, SW coastal, N coastal, Qld., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Lepidoptera larvae.

***Psenulus* Kohl, 1896**

***Psenulus*** Kohl, F.F. (1896). Die Gattungen der Sphegiden. *Ann. Naturh. Hofmus. Wien* 11: 233–516 [293]. Type species *Psen fuscipennis* Dahlbom, 1843 by subsequent designation, see Ashmead, W.H. (1899). Classification of the entomophilous wasps, or the superfamily Sphegoidea. *Can. Entomol.* 31: 212–225 [224].



This group is found worldwide, mainly in the Oriental Region, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [171].

***Psenulus carinifrons*** (Cameron, 1902)

Taxonomic decision of van Lith, J.P. (1966). The group of *Psenulus pulcherrimus* (Bingham) (Hymenoptera, Sphecidae). *Tijdschr. Entomol.* **109**: 35–48 [43].

***Psenulus carinifrons scutellatus*** Turner, 1912

***Psenulus scutellatus*** Turner, R.E. (1912). Notes on fossorial Hymenoptera. IX. On some new species from the Australian and Austro-Malayan regions. *Ann. Mag. Nat. Hist.* (8) **10**: 48–63 [54]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; only published localities Cairns and Halifax, also in Papua New Guinea, Indonesia and Philippines. Ecology: larva - sedentary, predator : adult - volant; prey small Hemiptera, nest in cavities in plants. Biological references: van Lith, J.P. (1969). Descriptions of some Indo-Australian *Psenulus* and revision of the group of *Psenulus pulcherrimus* (Bingham) (Hymenoptera, Sphecidae, Psenini). *Tijdschr. Entomol.* **112**: 197–212 (redescription).

***Psenulus interstitialis*** Cameron, 1906

***Psenulus interstitialis*** Cameron, P. (1906). Hymenoptera of the Dutch expedition to New Guinea in 1904 and 1905. Part 1, Thynnidae, Scoliidae, Pompilidae, Sphegidae and Vespidae. *Tijdschr. Entomol.* **49**: 215–233 [222]. Type data: syntypes (probable), whereabouts unknown, from Etna Bay, New Guinea.

***Psen lutescens*** Turner, R.E. (1907). New species of Sphegidae from Australia. *Ann. Mag. Nat. Hist.* (7) **19**: 268–276 [273]. Type data: holotype, BMNH 21.838 \*F. adult, from Mackay, Qld.

Taxonomic decision of Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [463].

Distribution: NE coastal, Qld.; only published localities Mackay, Cairns and Kuranda, also New Guinea. Ecology: larva - sedentary, predator : adult - volant; prey small Hemiptera, nest in cavities in plants. Biological references: van Lith, J.P. (1972). Contribution to the knowledge of Oriental *Psenulus* (Hymenoptera, Sphecidae, Psenini). *Tijdschr. Entomol.* **115**: 153–203 (redescription).

***Polemistus*** Saussure, 1892

***Polemistus*** Saussure, H. de (1892). Histoire naturelle des Hyménoptères. Vol. 20 xxi 590 pp. in Grandidier, A. (1890–1892) *Histoire Physique, Naturelle et Politique de Madagascar*. Paris : Imprimerie Nationale [565]. Type

species *Polemistus macilentus* Saussure, 1892 by subsequent designation, see Pate, V.S.L. (1937). The generic names of the sphecid wasps and their type species. *Mem. Am. Entomol. Soc.* **9**: 1–103. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp.

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [184].

***Polemistus exul*** Turner, 1907

***Polemistus exul*** Turner, R.E. (1907). New species of Sphegidae from Australia. *Ann. Mag. Nat. Hist.* (7) **19**: 268–276 [274]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay and whole eastern coast. Ecology: larva - sedentary, predator : adult - volant; nest in pre-existing holes.

***Arpactophilus*** Smith, 1864

***Arpactophilus*** Smith, F. (1864). Catalogue of hymenopterous insects collected by Mr. A.R. Wallace in the Islands of Mysol, Ceram, Waigiou, Bouru and Timor. *J. Linn. Soc. Lond. Zool.* **7**: 6–48 [36]. Type species *Arpactophilus bicolor* Smith, 1864 by monotypy.

***Harpactophilus*** Kohl, F.F. (1896). Die Gattungen der Sphegiden. *Ann. Naturh. Hofmus. Wien* **11**: 233–516 [276] [emend. of *Arpactophilus* Smith, 1864].

***Austrostigmus*** Turner, R.E. (1912). Notes on fossorial Hymenoptera. IX. On some new species from the Australian and Austro-Malayan regions. *Ann. Mag. Nat. Hist.* (8) **10**: 48–63 [55]. Type species *Stigmus queenslandensis* Turner, 1908 by original designation.

Taxonomic decision of Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [41].

This group is also found on Misool Is., Indonesia, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [186].

***Arpactophilus approximatus*** (Turner, 1916)

***Austrostigmus approximatus*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XIX. On new species from Australia. *Ann. Mag. Nat. Hist.* (8) **17**: 116–136 [131]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant.

***Arpactophilus arator*** (Turner, 1908)

***Harpactophilus arator*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with



descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 [461 pl xxvi fig 1]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; type locality only.  
Ecology: larva - sedentary, predator : adult - volant.

***Arpactophilus dubius* (Turner, 1916)**

***Austrostigmus dubius*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XIX. On new species from Australia. *Ann. Mag. Nat. Hist.* (8) **17**: 116–136 [131]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, Qld.; type locality only.  
Ecology: larva - sedentary, predator : adult - volant.

***Arpactophilus glabrellus* (Turner, 1916)**

***Austrostigmus glabrellus*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XIX. On new species from Australia. *Ann. Mag. Nat. Hist.* (8) **17**: 116–136 [132]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kalamunda, Darling Ranges, W.A.

Distribution: SW coastal, W.A.; type locality only.  
Ecology: larva - sedentary, predator : adult - volant.

***Arpactophilus kohlii* (Turner, 1908)**

***Harpactophilus kohlii*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [459]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only.  
Ecology: larva - sedentary, predator : adult - volant.

***Arpactophilus queenslandensis* (Turner, 1908)**

***Stigmus queenslandensis*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [457]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only.  
Ecology: larva - sedentary, predator : adult - volant. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Arpactophilus reticulatus* (Turner, 1912)**

***Austrostigmus reticulatus*** Turner, R.E. (1912). Notes on fossorial Hymenoptera. IX. On some new species from the Australian and Austro-Malayan regions. *Ann. Mag. Nat. Hist.* (8) **10**: 48–63 [55]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Cairns district, Qld.

Distribution: NE coastal, N coastal, Qld., N.T.; only published localities Cairns district, Darwin.  
Ecology: larva - sedentary, predator : adult - volant.

***Arpactophilus ruficollis* (Turner, 1916)**

***Austrostigmus ruficollis*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XIX. On new species from Australia. *Ann. Mag. Nat. Hist.* (8) **17**: 116–136 [133]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, Qld.; type locality only.  
Ecology: larva - sedentary, predator : adult - volant.

***Arpactophilus steindachneri* Kohl, 1884**

Taxonomic decision of Turner, R.E. (1936). Notes on fossorial Hymenoptera. XLV. On new sphegid wasps from Australia. *Ann. Mag. Nat. Hist.* (10) **18**: 533–545 [534].

***Arpactophilus steindachneri steindachneri* Kohl, 1884**

***Arpactophilus steindachneri*** Kohl, F.F. (1884). Neue Hymenopteren in den Sammlungen des k.k. zoologischen Hof-Cabinetes zu Wien. ii. *Verh. Zool.-Bot. Ges. Wien* **33**: 331–386 [334 pl 18 figs 1–2]. Type data: syntypes (probable), NHMW \*F. adult, from Australia.

Distribution: NE coastal, Qld.; only published localities Cooktown, Cairns, Mackay and Yaamba.  
Ecology: larva - sedentary, predator : adult - volant. Biological references: Evans, H.E. (1964). Further studies on the larvae of digger wasps (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **90**: 235–299 pls 12 (description of larva).

***Arpactophilus steindachneri deserticolus* Turner, 1936**

***Harpactophilus steindachneri deserticolus*** Turner, R.E. (1936). Notes on fossorial Hymenoptera. XLV. On new sphegid wasps from Australia. *Ann. Mag. Nat. Hist.* (10) **18**: 533–545 [534]. Type data: holotype, BMNH \*F. adult, from Dedari, W.A.

Distribution: W plateau, W.A.; type locality only.  
Ecology: larva - sedentary, predator : adult - volant.

***Arpactophilus sulcatus* (Turner, 1908)**

***Harpactophilus sulcatus*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 [460]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, Qld.; type locality only.  
Ecology: larva - sedentary, predator : adult - volant.

***Arpactophilus tricolor*** (Turner, 1908)

***Harpactophilus tricolor*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [462 pl xxvi fig 2]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant.

***Paracrabro*** Turner, 1907

***Paracrabro*** Turner, R.E. (1907). New species of Sphegidae from Australia. *Ann. Mag. Nat. Hist.* (7) **19**: 268–276 [275]. Type species *Paracrabro froggatti* Turner, 1907 by monotypy and original designation.

***Paracrabro froggatti*** Turner, 1907

***Paracrabro froggatti*** Turner, R.E. (1907). New species of Sphegidae from Australia. *Ann. Mag. Nat. Hist.* (7) **19**: 268–276 [275]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Vic.

Distribution: N.S.W., Vic.; only published localities as states. Ecology: larva - sedentary, predator : adult - volant. Biological references: Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253–356 (redescription).

***Spilomena*** Shuckard, 1838

***Celia*** Shuckard, W.E. (1837). *Essay on the Indigenous Fossorial Hymenoptera*; comprising a description of all the British species of burrowing sand wasps contained in the metropolitan collections; with their habits as far as they have been observed. London : Shuckard xii 259 pp. [182] [non *Celia* Zimmermann, 1832]. Type species *Stigmus troglodytes* Van der Linden, 1829 by monotypy and original designation.

***Spilomena*** Shuckard, W.E. (1838). Descriptions of new exotic aculeate Hymenoptera. *Trans. Entomol. Soc. Lond.* **2**: 68–82 [79] [nom. nov. for *Celia* Shuckard, 1837].

***Microglossa*** Rayment, T. (1930). *Microglossa* and *Melitribus*, new genera of Australian bees. *Proc. R. Soc. Vict. (ns)* **42**: 211–220 pl 21 [212] [non *Microglossa* Voight, 1831]. Type species *Microglossa longifrons* Rayment, 1930 by original designation.

***Microglossella*** Rayment, T. (1935). *A Cluster of Bees*. Sydney : Endeavour Press 750 pp. [634] [nom. nov. for *Microglossa* Rayment, 1930].

Taxonomic decision of Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [41].

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [192].

***Spilomena australis*** Turner, 1910

***Spilomena australis*** Turner, R.E. (1910). New fossorial Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* **1910**: 407–429 pl 50 [418 pl 50 fig 9]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, Qld.; only published localities Kuranda and Cairns. Ecology: larva - sedentary, predator : adult - volant.

***Spilomena bimaculata*** (Rayment, 1930)

***Microglossa bimaculata*** Rayment, T. (1930). *Microglossa* and *Melitribus*, new genera of Australian bees. *Proc. R. Soc. Vict. (ns)* **42**: 211–220 pl 21 [216]. Type data: holotype, ANIC F. adult, from Sandringham, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, predator : adult - volant.

***Spilomena elegantula*** Turner, 1916

***Spilomena elegantula*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XIX. On new species from Australia. *Ann. Mag. Nat. Hist.* (8) **17**: 116–136 [135]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant.

***Spilomena hobartia*** Turner, 1914

***Spilomena hobartia*** Turner, R.E. (1914). New fossorial Hymenoptera from Australia and Tasmania. *Proc. Linn. Soc. N.S.W.* **38**: 608–623 [622]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Eaglehawk Neck, Tas.

Distribution: Tas.; only published localities Eaglehawk Neck and Hobart. Ecology: larva - sedentary, predator : adult - volant.

***Spilomena iridescens*** Turner, 1916

***Spilomena iridescens*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XIX. On new species from Australia. *Ann. Mag. Nat. Hist.* (8) **17**: 116–136 [135]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant.

***Spilomena longiceps*** Turner, 1916

***Spilomena longiceps*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XIX. On new species from Australia. *Ann. Mag. Nat. Hist.* (8) **17**: 116–136 [134]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, Qld.; type locality only.  
Ecology: larva - sedentary, predator : adult - volant.

***Spilomena longifrons*** (Rayment, 1930)

***Microglossa longifrons*** Rayment, T. (1930). *Microglossa* and *Melitribus*, new genera of Australian bees. *Proc. R. Soc. Vict. (ns)* **42**: 211–220 pl 21 [213]. Type data: holotype, ANIC M. adult (unnumbered), from Sandringham, Vic.

Distribution: SE coastal, Murray-Darling basin, Vic.; only published localities Sandringham, Gunbower Is. and Port Phillip Bay. Ecology: larva - sedentary, predator : adult - volant. Biological references: Rayment, T. (1935). *A Cluster of Bees*. Sydney : Endeavour Press 750 pp. (redescription).

***Spilomena luteiventris*** Turner, 1936

***Spilomena luteiventris*** Turner, R.E. (1936). Notes on fossorial Hymenoptera. XLV. On new sphegid wasps from Australia. *Ann. Mag. Nat. Hist. (10)* **18**: 533–545 [533]. Type data: holotype, BMNH \*F. adult, from Tambourine Mt., Qld.

Distribution: NE coastal, Qld.; type locality only.  
Ecology: larva - sedentary, predator : adult - volant.

***Spilomena rufitarsus*** (Rayment, 1930)

***Microglossa rufitarsus*** Rayment, T. (1930). *Microglossa* and *Melitribus*, new genera of Australian bees. *Proc. R. Soc. Vict. (ns)* **42**: 211–220 pl 21 [215]. Type data: syntypes (probable), ANIC \*F. adult, from Sandringham, Vic.

Distribution: SE coastal, Vic.; only published localities Sandringham and Malvern. Ecology: larva - sedentary, predator : adult - volant.

***Astata*** Latreille, 1796

***Astata*** Latreille, P.A. (1796). *Précis des Caractères Génériques des Insectes*, disposés dans un ordre naturel. Bordeaux : Brive xiv 208 pp. [xiii]. Type species *Tiphia abdominalis* Panzer, 1798 by subsequent designation, see Latreille, P.A. (1802–1803). *Histoire Naturelle, Générale et Particulière des Crustacés et des Insectes*. Paris : F. Dufart Vol. 3 xii 13+467 pp. [337]. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp.

This group is found on all continents except Australia, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [211]. Species now known not to occur in Australia: *Astata australasiae* Shuckard, 1838 a South American species *vide* Pulawski, W. (1975). Synonymical notes on Larrinae and Astatinae (Hymenoptera : Sphecidae). *J. Wash. Acad. Sci.* **64**: 308–323 [320].

***Larra*** Fabricius, 1793

Taxonomic decision of Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [42].

***Larra (Larra)*** Fabricius, 1793

***Larra*** Fabricius, J.C. (1793). *Entomologia Systematica Emendata et Aucta*. Secundum classes, ordines, genera, species. Adjectis synonymis, locis, observationibus, descriptionibus. Hafniae : C.G. Profit Vol. 2 viii 519 pp. [220]. Type species *Larra ichneumoniformis* Fabricius, 1793 by subsequent designation, see Latreille, P.A. (1810). *Considérations Générales sur l'Ordre Naturel des Animaux Composant les Classes des Crustacés, des Arachnides, et des Insectes*; avec un Tableau Méthodique de leurs Genres, Disposés en Familles. Paris : F. Schoell 444 pp.

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [233]. Species now known not to occur in Australia: *Larra psilocera* Kohl, 1884 an Austro-Malayan or Melanesian species *vide* Turner, R.E. (1916). Notes on fossorial Hymenoptera. XX. On some Larrinae in the British Museum. *Ann. Mag. Nat. Hist. (8)* **17**: 248–259 [250].

***Larra (Larra) melanocnemis*** Turner, 1916

***Larra melanocnemis*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XX. On some Larrinae in the British Museum. *Ann. Mag. Nat. Hist. (8)* **17**: 248–259 [249]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, S Gulfs, N coastal, Qld., S.A., N.T.; only published localities Mackay, Adelaide and Adelaide River. Ecology: larva - ectoparasitic : adult - volant; prey Orthoptera (Gryllotalpidae), no nest constructed.

***Larra (Cratolarra)*** Cameron, 1900

***Cratolarra*** Cameron, P. (1900). Descriptions of new genera and species of aculeate Hymenoptera from the Oriental zoological region. *Ann. Mag. Nat. Hist. (7)* **8**: 116–122 [34] Type species *Cratolarra femorata* Cameron, 1900 by monotypy. [type species is a secondary homonym of *Tachytes femorata* Saussure, 1855 *vide* Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp.].

This group is also found in the Old World tropics, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [233].

***Larra (Cratolarra) femorata*** (Saussure, 1855)

***Tachytes femoratus*** Saussure, H. de (1855). Mélanges hyménoptérologiques. *Mém. Soc. Phys. Hist. Nat.*



Genève 14: 1-67 [20 pl 8 fig 6]. Type data: syntypes (probable), whereabouts unknown, from Australia (as New Holland).

**Larra scelest**a Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457-535 pl xxvi [474]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Taxonomic decision of Turner, R.E. (1916). Notes on fossorial Hymenoptera. XX. On some Larrinae in the British Museum. *Ann. Mag. Nat. Hist.* (8) 17: 248-259 [251].

Distribution: NE coastal, SE coastal, N coastal, Qld., N.S.W., Tas., N.T. Ecology: larva - ectoparasitic : adult - volant; prey Orthoptera (Gryllotalpidae), no nest constructed. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement); Williams, F.X. (1928). Studies in tropical wasps - their hosts and associates (with descriptions of new species). *Bull. Hawaiian Sug. Pltrs'. Ass. Exp. Stn. Entomol. Ser.* 19: 1-179 (biology).

### **Larra (Unplaced)**

#### **Larra alecto** (Smith, 1858)

**Larrada alecto** Smith, F. (1858). Catalogue of the hymenopterous insects collected at Sarawak, Borneo; Mount Ophir, Malacca; and Singapore, by A.R. Wallace. *J. Linn. Soc. Lond. Zool.* 2: 42-130 [103]. Type data: syntypes (probable), OUM \*F. adult, from Singapore.

Distribution: Christmas Is.; also Singapore and Celebes. Ecology: larva - ectoparasitic : adult - volant; prey Orthoptera Gryllotalpidae, no nest constructed. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

### **Liris** Fabricius, 1804

Taxonomic decision of Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [43].

#### **Liris (Liris)** Fabricius, 1804

**Liris** Fabricius, J.C. (1804). *Systema Piezatorum*. Brunsvigae : C. Reichard xiv 439 pp. [227]. Type species *Sphex auratus* Fabricius, 1787 by subsequent designation, see Patton, W.H. (1881). List of the North American Larradae. *Proc. Bost. Soc. Nat. Hist.* 20: 385-397 [386].

This group is also found in the Palearctic, Ethiopian and Oriental Regions, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [238].

#### **Liris (Liris) melania** Turner, 1916

**Liris melania** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XX. On some Larrinae in the British Museum. *Ann. Mag. Nat. Hist.* (8) 17: 248-259 [248]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns district, Qld.

Distribution: NE coastal, Qld.; only published localities Cairns district and Halifax, also Solomon Is. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Gryllidae), pre-existing holes preferred. Biological references: Williams, F.X. (1936). Notes on some larrid wasps from the British Solomon Islands Protectorate, with the description of one new species. *Ann. Mag. Nat. Hist.* (10) 18: 124-130 (description of male, distribution).

#### **Liris (Leptolarra)** Cameron, 1900

**Leptolarra** Cameron, P. (1900). Descriptions of new genera and species of aculeate Hymenoptera from the Oriental zoological region. *Ann. Mag. Nat. Hist.* (7) 8: 116-122 [29]. Type species *Leptolarra reticulata* Cameron, 1900 by subsequent designation, see Richards, O.W. (1935). Notes on the nomenclature of the aculeate Hymenoptera, with special reference to British genera and species. *Trans. R. Entomol. Soc. Lond.* 83: 143-176.

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [238].

#### **Liris (Leptolarra) abbreviata** (Turner, 1908)

**Notogonia abbreviata** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457-535 pl xxvi [481]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; only published localities Cairns, Kuranda and Mackay. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Gryllidae), pre-existing holes preferred. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

#### **Liris (Leptolarra) agitata** (Turner, 1908)

**Notogonia agitata** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457-535 pl xxvi [477]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay, Cairns and Brisbane. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Gryllidae), pre-existing holes preferred. Biological references:

Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Liris (Leptolarra) basilissa*** (Turner, 1908)

***Notogonia basilissa*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [476]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay and Cairns. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Gryllidae), pre-existing holes preferred. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Liris (Leptolarra) chrysonota*** (Smith, 1869)

***Larrada chrysonota*** Smith, F. (1869). Descriptions of new genera and species of exotic Hymenoptera. *Trans. Entomol. Soc. Lond.* **1869**: 301–311 [304]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

***Larrada crassipes*** Smith, F. (1873). Descriptions of new species of fossorial Hymenoptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (4) **12**: 291–300, 402–415 [294]. Type data: syntypes (probable), BMNH \*F,M adult, from S.A.

Taxonomic decision of Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [475].

Distribution: S Gulfs, SW coastal, NW coastal, N coastal, S.A., W.A.; only published localities Adelaide, Swan River, Coolgardie, Champion Bay and Ord River. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Gryllidae), pre-existing holes preferred. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Liris (Leptolarra) commixta*** (Turner, 1908)

***Notogonia commixta*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [480]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; only published localities Cairns and Kuranda. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Gryllidae), pre-existing holes preferred. Biological references:

Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Liris (Leptolarra) festinans*** (Smith, 1859)

***Larrada festinans*** Smith, F. (1859). Catalogue of hymenopterous insects collected at Celebes by Mr. A.R. Wallace. *J. Linn. Soc. Lond. Zool* **3**: 4–27 [17]. Type data: syntypes (probable), ?OUM \* adult, from Celebes.

***Notogonia manilae*** Ashmead, W.H. (1904). Descriptions of new genera and species of Hymenoptera from the Philippine Islands. *Proc. U.S. Natl. Mus.* **28**: 127–158 [130]. Type data: holotype, USNM 7996 \*adult, from Philippines.

***Notogonia retiararia*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [479]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Perth, W.A.

Taxonomic decision of Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [245].

Distribution: NE coastal, SW coastal, Qld., W.A.; only published localities Mackay, Kuranda, Perth and Kalamunda, also in Oriental Region and on many Pacific islands. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Gryllidae), pre-existing holes preferred. Biological references: Tsuneki, K. (1983). Larrinae of New Guinea in the collection of the Hungarian National Museum of Natural History Budapest (Hymenoptera, Sphecidae). *Spec. Publ. Japan Hymenopterists Assoc.* **25**: 6–53 (redescription).

***Liris (Leptolarra) haemorrhoidalis*** (Fabricius, 1804)

Taxonomic decision of Turner, R.E. (1916). Notes on fossorial Hymenoptera. XX. On some Larrinae in the British Museum. *Ann. Mag. Nat. Hist.* (8) **17**: 248–259 [248].

***Liris (Leptolarra) haemorrhoidalis magnifica*** Kohl, 1884

***Liris magnifica*** Kohl, F.F. (1884). Neue Hymenopteren in den Sammlungen des k.k. zoologischen Hof-Cabinetes zu Wien. ii. *Verh. Zool.-Bot. Ges. Wien* **33**: 331–386 [356]. Type data: syntypes (probable), NHMW \*F. adult, from N. Australia. [248].

Distribution: NE coastal, Qld.; only published localities Mackay to Cape York. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Gryllidae), pre-existing holes preferred. Biological references: Williams, F.X. (1928). Studies in tropical wasps - their hosts and associates (with descriptions of new species). *Bull. Hawaiian Sug. Pltr's. Ass. Exp. Stn.*

*Entomol. Ser.* **19**: 1–179 (biology); Evans, H.E. (1958). Studies on the larvae of digger wasps (Hymenoptera, Sphecidae). Part IV Astatinae, Larrinae and Pemphredoninae. *Trans. Am. Entomol. Soc.* **84**: 109–139 (larva).

***Liris (Leptolarra) obliquetruncata*** (Turner, 1908)

***Notogonia obliquetruncata*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [479]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Port Darwin, N.T.

Distribution: SW coastal, N coastal, W.A., N.T.; only published localities Yallingup, S Perth and Darwin. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Gryllidae), pre-existing holes preferred. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Liris (Leptolarra) recondita*** (Turner, 1916)

***Notogonia recondita*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XXIII. *Ann. Mag. Nat. Hist.* (8) **18**: 277–288 [284]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay and Kuranda. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Gryllidae), pre-existing holes preferred. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Liris (Leptolarra) regina*** (Turner, 1908)

***Notogonia regina*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 [475 pl xxvi fig 7]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; only published localities Cairns, Mackay, Cape York and Kuranda. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Gryllidae), pre-existing holes preferred. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Liris (Leptolarra) serena*** (Turner, 1908)

***Notogonia serena*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with

descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [478]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, N coastal, Qld., W.A.; only published localities Mackay, Kuranda, Cairns and Ord River. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Gryllidae), pre-existing holes preferred. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Liris (Leptolarra) spathulifera*** (Turner, 1916)

***Notogonia spathulifera*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XXIII. *Ann. Mag. Nat. Hist.* (8) **18**: 277–288 [282]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Port Darwin, N.T.

Distribution: N coastal, N.T.; only published localities Darwin and Bathurst Is. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Gryllidae), pre-existing holes preferred. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

### ***Liris* (Unplaced)**

***Liris australis*** (Saussure, 1855)

***Tachytes australis*** Saussure, H. de (1855). Mélanges hyménoptérologiques. *Mém. Soc. Phys. Hist. Nat. Genève* **14**: 1–67 [19]. Type data: syntypes (probable), whereabouts unknown, from Australia (as New Holland).

Distribution: NE coastal, S Gulfs, SW coastal, Qld., Tas., S.A., W.A.; only published localities Cape York, Eaglehawk Neck, Adelaide and Yallingup. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Gryllidae), pre-existing holes preferred. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement); Turner, R.E. (1916). Notes on fossorial Hymenoptera. XX. On some Larrinae in the British Museum. *Ann. Mag. Nat. Hist.* (8) **17**: 248–259 (as *Notogonia australis*, redescription).

***Liris nigripes*** (Saussure, 1867)

***Larrada nigripes*** Saussure, H. de (1867). Hymenoptera. in, *Reise der österreichischen Fregatte Novara um die Erde in den Jahren 1857, 1858, 1859 unter den Befehlen des Commodore B. von Wüllerstorff-Urbair*. Zoologischer theil. Vol. 2(2) 138 pp. Wien : K-K Hof- und Staatsdruckerei [74]. Type data: holotype, GMNH \*M. adult, from Tas.



Distribution: Tas.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (Gryllidae), pre-existing holes preferred. Biological references: Schulz, W.A. (1911). Zweihundert alte Hymenopteren. *Zool. Ann. Würzburg* 4: 1-220 (redescription); Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Dicranorhina* Shuckard, 1840**

***Dicranorhina*** Shuckard, W.E. (1840). in Swainson, W. & Shuckard, W. *On the History and Natural Arrangement of Insects*. Vol. 129 of the *Cabinet Cyclopaedia* of D. Lardner. London : Longman iv 406 pp. [181]. Type species *Piagetia intaminata* Turner, 1910 by subsequent designation, see Pate, V.S.L. (1937). The generic names of the sphecoïd wasps and their type species. *Mem. Am. Entomol. Soc.* 9: 1-103. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp.

This group is also found in Africa and the Oriental Region, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [250].

***Dicranorhina intaminata* (Turner, 1910)**

***Piagetia intaminata*** Turner, R.E. (1910). New fossorial Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* 1910: 407-429 pl 50 [426 pl 50 fig 14]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera (crickets).

***Tachytes* Panzer, 1806**

***Tachytes*** Panzer, G.W.F. (1806). *Kritische Revision der Insektenfauna Deutschlands nach dem System bearbeitet*. Nürnberg : Felssecker Vol. 2 xii 271 pp. [129]. Type species *Pompilus tricolor* Fabricius, 1798 by monotypy.

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [260].

***Tachytes aestuans* Turner, 1916**

***Tachytes aestuans*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XXI. On the Australian Larrinae of the genus *Tachytes*. *Ann. Mag. Nat. Hist. (8)* 17: 299-306 [302]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Hermannsburg, N.T. and Killalpanima, S.A. (as "Central Australia Hermannsburg, Killalpanima").

Distribution: Lake Eyre basin, S.A., N.T.; only published localities Killalpanima, Hermannsburg. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Tachytes approximatus* Turner, 1908**

***Tachytes approximatus*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457-535 pl xxvi [483]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay and Cairns. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Tachytes codonocarp* Pulawski, 1975**

***Tachytes codonocarp*** Pulawski, W. (1975). Two new species of Larrinae (Hym., Sphecidae) from Australia and Tunisia. *Pol. Pismo Entomol.* 45: 165-169 [165]. Type data: holotype, SAMA \*M. adult, from Everard Park Station, S.A.

Distribution: Lake Eyre basin, W plateau, S.A.; only published localities Everard Park Station and Lake Hart. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Tachytes dispersus* Turner, 1916**

***Tachytes dispersus*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XXI. On the Australian Larrinae of the genus *Tachytes*. *Ann. Mag. Nat. Hist. (8)* 17: 299-306 [304]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Baudin Is., W.A.

Distribution: NE coastal, SW coastal, NW coastal, N coastal, Qld., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Tachytes fatalis* Turner, 1916**

***Tachytes fatalis*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XXI. On the Australian Larrinae of the genus *Tachytes*. *Ann. Mag. Nat. Hist. (8)* 17: 299-306 [303]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Toowoomba, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Tachytes formosissimus* Turner, 1908**

***Tachytes formosissimus*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457-535 [482 pl xxvi fig 6]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only.  
Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Tachytes mitis* Turner, 1916**

***Tachytes mitis*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XXI. On the Australian Larrinae of the genus *Tachytes*. *Ann. Mag. Nat. Hist. (8)* 17: 299–306 [301]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kalamunda, W.A.

Distribution: NE coastal, SW coastal, Qld., W.A.; only published localities Townsville and Kalamunda. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Tachytes plutocraticus* Turner, 1910**

***Tachytes plutocraticus*** Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* 1910: 253–356 [348]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Townsville, Qld.

Distribution: NE coastal, Qld.; type locality only.  
Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Tachytes relucens* Turner, 1916**

***Tachytes relucens*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XXI. On the Australian Larrinae of the genus *Tachytes*. *Ann. Mag. Nat. Hist. (8)* 17: 299–306 [300]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay and Cape York. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Tachytes rubellus* Turner, 1908**

***Tachytes rubellus*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457–535 pl xxvi [482]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Port Darwin, N.T.

Distribution: S Gulfs, N coastal, S.A., N.T.; only published localities Adelaide and Darwin. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Tachytes sulcatus* Turner, 1916**

***Tachytes sulcatus*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XXI. On the Australian Larrinae of the genus *Tachytes*. *Ann. Mag. Nat. Hist. (8)* 17: 299–306 [304]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Busselton, Cottesloe, W.A.

Distribution: SW coastal, W.A.; type locality only.  
Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera.

***Tachytes tachyrrhostus* Saussure, 1855**

***Tachytes tachyrrhostus*** Saussure, H. de (1855). Mélanges hyménoptérologiques. *Mém. Soc. Phys. Hist. Nat. Genève* 14: 1–67 [18]. Type data: holotype, GMNH \*M. adult, from Australia (as New Holland).

Distribution: N.S.W., Vic., Tas.; published localities as states only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera. Biological references: Schulz, W.A. (1911). Zweihundert alte Hymenopteren. *Zool. Ann. Würzburg* 4: 1–220 (redescription); Turner, R.E. (1916). Notes on fossorial Hymenoptera. XXI. On the Australian Larrinae of the genus *Tachytes*. *Ann. Mag. Nat. Hist. (8)* 17: 299–306 (identity doubtful).

***Tachysphex* Kohl, 1883**

***Tachysphex*** Kohl, F.F. (1883). Ueber neue Grabwespen des Mediterrangebietes. *Dtsch. Entomol. Z.* 27:161–186 [166]. Type species *Tachysphex filicornis* Kohl, 1883 by subsequent designation, see Bingham, C.T. (1897). *The Fauna of British India, Including Ceylon and Burma*. Hymenoptera. Vol. I Wasps and Bees. London : Taylor & Francis xxx 579 pp. [192].

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [267].

***Tachysphex aboriginus* Pulawski, 1977**

***Tachysphex aboriginus*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* 47: 203–332 [312]. Type data: holotype, BMNH \*F. adult, from Perth, W.A.

Distribution: NE coastal, Murray-Darling basin, Lake Eyre basin, W plateau, SW coastal, N coastal, Qld., N.S.W., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex brevicornis* Pulawski, 1977**

***Tachysphex brevicornis*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* 47: 203–332 [263]. Type data: holotype, ANIC M. adult, from Bessie Spring, 8 km ESE of Cape Crawford, N.T.

Distribution: N coastal, N Gulf, N.T.; only published localities Bessie Spring, Borrooloola, Caranbirini and Pine Creek. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex buccalis* Pulawski, 1977**

***Tachysphex buccalis*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [280]. Type data: holotype, ANIC M. adult, from Tomkinson Ranges, Mt. Davies and vicinity, S.A.

Distribution: W plateau, S.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex circulans* Pulawski, 1977**

***Tachysphex circulans*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [224]. Type data: holotype, BMNH \*F. adult, from Yallingup, W.A.

Distribution: SW coastal, NW coastal, W.A.; only published localities Yallingup, Yanchep and Wiluna. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex contrarius* Pulawski, 1977**

***Tachysphex contrarius*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [241]. Type data: holotype, BMNH \*F. adult, from Kalamunda, W.A.

Distribution: SE coastal, Murray-Darling basin, S Gulfs, SW coastal, NW coastal, N Gulf, Qld., N.S.W., A.C.T., Vic., Tas., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex depressiventris* Turner, 1916**

***Tachysphex depressiventris*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XX. On some Larrinae in the British Museum. *Ann. Mag. Nat. Hist.* (8) **17**: 248–259 [256]. Type data: lectotype, BMNH \*F. adult, from Yallingup, W.A., designation by Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [270].

Distribution: NE coastal, SE coastal, Murray-Darling basin, SW coastal, N coastal, N Gulf, Qld., N.S.W., A.C.T., Vic., Tas., W.A., N.T.; also on New Guinea. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Blattodea. Biological references: Evans, H.E., Matthews, R.W. & Pulawski, W. (1976). Notes on the nests and prey of four Australian species of *Tachysphex* Kohl, with description of a new species (Hymenoptera : Sphecidae). *J. Aust. Entomol. Soc.* **15**: 441–445 (nest, prey); Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 (redescription); Alcock, J. (1980). Notes on the reproductive behaviour of some Australian solitary wasps (Hymenoptera : Sphecidae, *Tachysphex* and *Exeirius*). *J. Aust. Entomol. Soc.* **19**: 259–262 (nest, prey).

***Tachysphex discrepans* Turner, 1915**

***Tachysphex discrepans*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XVI. On the Thynnidae, Scoliidæ and Crabronidae of Tasmania. *Ann. Mag. Nat. Hist.* (8) **15**: 537–559 [555]. Type data: lectotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Eaglehawk Neck, Tas., designation by Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [264].

Distribution: SE coastal, Murray-Darling basin, N.S.W., A.C.T., Vic., Tas. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 (redescription).

***Tachysphex eucalypticus* Pulawski, 1977**

***Tachysphex eucalypticus*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [251]. Type data: holotype, ANIC F. adult, from 5–15 mi S of Rainbow, Vic.

Distribution: Murray-Darling basin, W plateau, NW coastal, Vic., S.A., W.A.; only published localities near Rainbow, Mt. Davies and Carnarvon. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex fanuiensis* Cheesman, 1928**

Taxonomic decision of Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [292].

***Tachysphex fanuiensis corallinus* Pulawski, 1977**

***Tachysphex fanuiensis corallinus*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [295]. Type data: holotype, ANIC F. adult, from Heron Is., Qld.

Distribution: NE coastal, SE coastal, N coastal, N Gulf, Qld., N.S.W., W.A., N.T.; also on New Guinea and the Solomon Is. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex fanuiensis howeanus* Pulawski, 1977**

***Tachysphex fanuiensis howeanus*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [294]. Type data: holotype, ANIC F. adult, from Lord Howe Is.

Distribution: Lord Howe Is.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.



***Tachysphex foliaceus* Pulawski, 1977**

***Tachysphex foliaceus*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [267]. Type data: holotype, ANIC F. adult, from Cooper Creek, 11 km S by W of Nimbuwah Rock, N.T.

Distribution: NE coastal, N coastal, Qld., N.T.; only published localities near Cairns, Duaringa, Cooper Creek (12°17'S, 133°20'E) and Tumbling Waters. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex fortior* Turner, 1908**

***Tachysphex fortior*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [486]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from SW Australia.

Distribution: SW coastal, NW coastal, W.A.; only published localities Dongara, near Geraldton, Mingenew, Yanchep and Yallingup. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 (redescription).

***Tachysphex galeatus* Pulawski, 1977**

***Tachysphex galeatus*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [223]. Type data: holotype, ANIC F. adult, from 15 mi W of Bowen, Qld.

Distribution: NE coastal, Murray-Darling basin, Lake Eyre basin, Qld., N.S.W., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex hypoleius* (Smith, 1856)**

***Tachytes hypoleius*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [302]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

Distribution: SW coastal, NW coastal, W.A.; only published localities Swan River and Wurunga. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi (generic placement); Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 (redescription).

***Tachysphex imbellis* Turner, 1908**

***Tachysphex imbellis*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [485]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

***Tachysphex adelaidae*** Turner, R.E. (1910). New fossorial Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* **1910**: 407–429 pl 50 [425]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

Taxonomic decision of Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [249].

Distribution: NE coastal, S Gulfs, Qld., S.A.; only published localities Mackay and Adelaide. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex mackayensis* Turner, 1908**

***Tachytes australis*** Saussure, H. de (1867). Hymenoptera. in, *Reise der österreichischen Fregatte Novara um die Erde in den Jahren 1857, 1858, 1859 unter den Befehlen des Commodore B. von Willerstorff-Urbair*. Zoologischer theil. Vol. 2(2) 138 pp. Wien : K-K Hof- und Staatsdruckerei [68] [*non Tachytes australis* Saussure, 1855]. Type data: lectotype, NHMW \*M. adult, from Sydney, N.S.W., designation by Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [297].

***Tachysphex mackayensis*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [487]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Taxonomic decision of Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [297].

Distribution: NE coastal, SE coastal, Murray-Darling basin, S Gulfs, SW coastal, NW coastal, N coastal, N Gulf, Qld., N.S.W., A.C.T., Vic., Tas., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Blattodea. Biological references: Evans, H.E., Matthews, R.W. & Pulawski, W. (1976). Notes on the nests and prey of four Australian species of *Tachysphex* Kohl, with description of a new species (Hymenoptera : Sphecidae). *J. Aust. Entomol. Soc.* **15**: 441–445 (prey).

***Tachysphex maculipennis* Pulawski, 1977**

***Tachysphex maculipennis*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [324]. Type data: holotype, ANIC F. adult, from 13 mi NE Geraldton, W.A.

Distribution: NE coastal, Murray-Darling basin, Lake Eyre basin, W plateau, SW coastal, NW coastal, N coastal, Qld., N.S.W., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex maximus*** Pulawski, 1977

***Tachysphex maximus*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203-332 [287]. Type data: holotype, ANIC F. adult, from 40 mi N of Broken Hill, N.S.W.

Distribution: Lake Eyre basin, Bulloo River basin, Qld., N.S.W., S.A.; only published localities Nocatunga, near Broken Hill and Wilpena Pound. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex multifasciatus*** Pulawski, 1976

***Tachysphex multifasciatus*** Pulawski, W. in Evans, H.E., Matthews, R.W. & Pulawski, W. (1976). Notes on the nests and prey of four Australian species of *Tachysphex* Kohl, with description of a new species (Hymenoptera : Sphecidae). *J. Aust. Entomol. Soc.* **15**: 441-445 [443]. Type data: holotype, ANIC M. adult, from Mt. Isa and vicinity, Qld.

Distribution: N coastal, N Gulf, Qld., W.A., N.T.; only published localities Mt. Isa, Drysdale River, Humpty Doo and Manbulloo Station - Katherine. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Mantodea. Biological references: Evans, H.E., Matthews, R.W. & Pulawski, W. (1976). Notes on the nests and prey of four Australian species of *Tachysphex* Kohl, with description of a new species (Hymenoptera : Sphecidae). *J. Aust. Entomol. Soc.* **15**: 441-445 (nest, prey); Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203-332 (redescription).

***Tachysphex nefarius*** Pulawski, 1977

***Tachysphex nefarius*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203-332 [327]. Type data: holotype, ANIC F. adult, from Bluff Range, Biggenden, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex novarae*** (Saussure, 1867)

***Tachytes novarae*** Saussure, H. de (1867). Hymenoptera. in, *Reise der österreichischen Fregatte Novara um die Erde in den Jahren 1857, 1858, 1859 unter den Befehlen des Commodore B. von Willerstorff-Urbair*. Zoologischer Theil. Vol. 2(2) 138 pp. Wien : K-K Hof- und Staatsdruckerei [69]. Type data: syntypes (probable), NHMW \*F. adult, from Nicobar IIs.

Distribution: NE coastal, Qld.; also in New Guinea and Oriental region. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Kohl, F.F. (1884). Die Gattungen und Arten der Larriden Autorum. *Verh. Zool.-Bot. Ges. Wien* **34**: 171-268, 327-454 (generic placement); Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203-332 (redescription).

***Tachysphex pacificus*** Turner, 1908

***Tachysphex pacificus*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457-535 pl xxvi [491]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Melbourne, Vic.

Distribution: NE coastal, SE coastal, Murray-Darling basin, SW coastal, Qld., N.S.W., A.C.T., Vic., Tas., W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203-332 (redescription).

***Tachysphex paucispina*** Pulawski, 1977

***Tachysphex paucispina*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203-332 [230]. Type data: holotype, BMNH \*F. adult, from Dongara, W.A.

Distribution: SW coastal, NW coastal, W.A.; only published localities Dongara and Nannup. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex persistans*** Turner, 1916

***Tachysphex persistans*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XX. On some Larrinae in the British Museum. *Ann. Mag. Nat. Hist.* (8) **17**: 248-259 [256]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: NE coastal, SE coastal, Murray-Darling basin, S Gulfs, Lake Eyre basin, SW coastal, W plateau, N coastal, Qld., N.S.W., A.C.T., Vic., Tas., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203-332 (redescription).

***Tachysphex pilosulus*** Turner, 1908

***Tachysphex pilosulus*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457-535 pl xxvi [488]. Type data: lectotype, BMNH \*F. adult, from Cape York, Qld., designation by Pulawski, W.

(1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [320].

Distribution: NE coastal, SE coastal, Murray-Darling basin, Lake Eyre basin, W plateau, SW coastal, NW coastal, N coastal, N Gulf, Qld., N.S.W., Vic., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Mantodea. Biological references: Evans, H.E., Matthews, R.W. & Pulawski, W. (1976). Notes on the nests and prey of four Australian species of *Tachysphex* Kohl, with description of a new species (Hymenoptera : Sphecidae). *J. Aust. Entomol. Soc.* **15**: 441–445 (nest, prey); Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 (redescription); Alcock, J. (1980). Notes on the reproductive behaviour of some Australian solitary wasps (Hymenoptera : Sphecidae, *Tachysphex* and *Exeirus*). *J. Aust. Entomol. Soc.* **19**: 259–262 (nest, prey).

***Tachysphex platypus* Pulawski, 1977**

***Tachysphex platypus*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [253]. Type data: holotype, ANIC F. adult, from Marchagee, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex pleuralis* Pulawski, 1977**

***Tachysphex pleuralis*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [279]. Type data: holotype, ANIC M. adult, from McArthur River, 48 km SW by S of Borroloola, N.T.

Distribution: Lake Eyre basin, N Gulf, S.A., N.T.; only published localities Everard Park Station and McArthur River. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex politus* Pulawski, 1977**

***Tachysphex politus*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [277]. Type data: holotype, ANIC F. adult, from 40 mi N of Broken Hill, N.S.W.

Distribution: Bulloo River basin, Lake Eyre basin, Qld., N.S.W.; only published localities Nockatunga, near Broken Hill and Tibooburra. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex proteus* Pulawski, 1977**

***Tachysphex proteus*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [255]. Type data: holotype, NMV \*F. adult, from Wilkur, Vic.

Distribution: Murray-Darling basin, Vic.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex pubescens* Pulawski, 1977**

***Tachysphex pubescens*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [248]. Type data: holotype, ANIC F. adult, from Wyperfeld Natl. Park, 25 mi N of Rainbow, Vic.

Distribution: Murray-Darling basin, Vic.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex pugnator* Turner, 1908**

***Tachysphex pugnator*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [491]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

Distribution: NE coastal, SE coastal, Murray-Darling basin, S Gulfs, Lake Eyre basin, W plateau, SW coastal, NW coastal, N coastal, Qld., N.S.W., Vic., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 (redescription).

***Tachysphex puncticeps* Cameron, 1903**

***Tachysphex puncticeps*** Cameron, P. (1903). Descriptions of nineteen new species of Larridae, *Odynerus* and *Apidae* from Barrackpore. *Trans. Entomol. Soc. Lond.* **1903**: 117–132 [127]. Type data: holotype, OUM \*F. adult, from Bengal, India.

***Tachysphex rugidorsatus*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XVI. On the Thynnidae, Scoliidae and Crabronidae of Tasmania. *Ann. Mag. Nat. Hist.* (8) **15**: 537–559 [556]. Type data: holotype, BMNH 21.216 \*F. adult (seen 1929 by L.F. Graham), from Eaglehawk Neck, Tas.

Taxonomic decision of Pulawski, W. (1975). Synonymical notes on Larrinae and Astatinae (Hymenoptera : Sphecidae). *J. Wash. Acad. Sci.* **64**: 308–323 [311].

Distribution: NE coastal, SE coastal, Murray-Darling basin, S Gulfs, Lake Eyre basin, W plateau, SW coastal, NW coastal, N coastal, N Gulf, Qld., N.S.W., A.C.T., Vic., Tas., S.A., W.A., N.T.; also in India and Oriental Region. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Pulawski, W.



(1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 (redescription).

***Tachysphex rhynchocephalus*** Pulawski, 1977

***Tachysphex rhynchocephalus*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [281]. Type data: holotype, ANIC M. adult, from 30 mi S Mt. Davies, S.A.

Distribution: W plateau, S.A.; only published localities Mt. Davies and Musgrave Park. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex stimulator*** Turner, 1916

***Tachysphex stimulator*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XX. On some Larrinae in the British Museum. *Ann. Mag. Nat. Hist.* (8) **17**: 248–259 [257]. Type data: lectotype, BMNH \*F. adult, from Yallingup, W.A., designation by Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [227].

Distribution: Murray-Darling basin, S Gulfs, SW coastal, NW coastal, N coastal, N Gulf, Vic., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 (redescription).

***Tachysphex subopacus*** Turner, 1910

***Tachysphex debilis*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [490] [*non Tachysphex debilis* Perez, 1907]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

***Tachysphex subopacus*** Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253–356 [348] [*nom. nov.* for *Tachysphex debilis* Turner, 1908].

Distribution: NE coastal, Qld.; only published localities Cairns and Kuranda. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 (redescription).

***Tachysphex tenuis*** Turner, 1908

***Tachysphex tenuis*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [489]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Port Darwin, N.T.

Distribution: NE coastal, Murray-Darling basin, SW coastal, N coastal, N Gulf, Qld., A.C.T., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 (redescription).

***Tachysphex tenuisculptus*** Pulawski, 1977

***Tachysphex tenuisculptus*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [315]. Type data: holotype, ANIC F. adult, from Musgrave Park and vicinity (Amata), S.A.

Distribution: NE coastal, Murray-Darling basin, Lake Eyre basin, W plateau, SW coastal, NW coastal, N coastal, N Gulf, Qld., N.S.W., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex truncatifrons*** Turner, 1908

***Tachysphex truncatifrons*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [484]. Type data: syntypes (probable), OUM (not found by Pulawski in 1974) \*F. adult, from Qld.

Distribution: doubtfully Australia. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 (holotype not found, doubtful if Australian).

***Tachysphex vardy*** Pulawski, 1977

***Tachysphex vardy*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [233]. Type data: holotype, BMNH \*adult, from South Perth, W.A.

Distribution: Murray-Darling basin, SW coastal, N coastal, Vic., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex vividus*** Pulawski, 1977

***Tachysphex vividus*** Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 [274]. Type data: holotype, ANIC M. adult, from 25 mi W of Nyngan, N.S.W.

Distribution: Murray-Darling basin, Lake Eyre basin, N.S.W., S.A.; only published localities near Nyngan, Packsaddle and near Wilpena Pound. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Tachysphex walkeri* Turner, 1908**

***Tachysphex walkeri*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [487]. Type data: holotype, BMNH \*F. adult, from Sandy Islet, Long Reef, Qld.

Distribution: NE coastal, SE coastal, Murray-Darling basin, Lake Eyre basin, W plateau, NW coastal, N coastal, N Gulf, Qld., N.S.W., A.C.T., Vic., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Blattodea. Biological references: Pulawski, W. (1977). A synopsis of *Tachysphex* Kohl (Hym., Sphecidae) of Australia and Oceania. *Pol. Pismo Entomol.* **47**: 203–332 (redescription); Alcock, J. (1980). Notes on the reproductive behaviour of some Australian solitary wasps (Hymenoptera : Sphecidae, *Tachysphex* and *Exeirus*). *J. Aust. Entomol. Soc.* **19**: 259–262 (nest, prey).

***Aha* Menke, 1977**

***Aha*** Menke, A.S. (1977). *Aha*, a new genus of Australian Sphecidae, and a revised key to the world genera of the tribe Miscophini (Hymenoptera, Larrinae). *Pol. Pismo Entomol.* **47**: 671–681 [672]. Type species *Aha ha* Menke, 1977 by original designation.

***Aha evansi* Menke, 1977**

***Aha evansi*** Menke, A.S. (1977). *Aha*, a new genus of Australian Sphecidae, and a revised key to the world genera of the tribe Miscophini (Hymenoptera, Larrinae). *Pol. Pismo Entomol.* **47**: 671–681 [677]. Type data: holotype, ANIC M. adult, from 12–21 mi N of Ouyen, Vic.

Distribution: Murray-Darling basin, Vic., S.A.; only published localities vicinity of Ouyen, Sherlock. Ecology: larva - sedentary, predator: adult - volant. Biological references: Lomholdt, O.C. (1980). The female *Aha evansi* Menke, 1977 (Hymenoptera : Sphecidae, Larrinae). *Entomol. Scand.* **11**: 241–244 (description of female).

***Aha ha* Menke, 1977**

***Aha ha*** Menke, A.S. (1977). *Aha*, a new genus of Australian Sphecidae, and a revised key to the world genera of the tribe Miscophini (Hymenoptera, Larrinae). *Pol. Pismo Entomol.* **47**: 671–681 [674]. Type data: holotype, ANIC M. adult, from Kununurra and vicinity, W.A.

Distribution: N coastal, W.A.; only published locality Kununurra and vicinity. Ecology: larva - sedentary, predator: adult - volant.

***Lyroda* Say, 1837**

***Lyroda*** Say, T. (1837). Descriptions of new species of North American Hymenoptera and observations on some already described. *Bost. J. Nat. Hist.* **1**: 361–416 [372]

[described with subgeneric rank in *Lyrops* Illiger, 1807]. Type species *Lyrops (Lyroda) subita* Say, 1837 by subsequent designation, see Patton, W.H. (1881). Some characters useful in the study of the Sphecidae. *Proc. Bost. Soc. Nat. Hist.* **20**: 378–385. Compiled from secondary source: Pate, V.S.L. (1937). The generic names of the sphecoid wasps and their type species (Hymenoptera : Aculeata). *Mem. Am. Entomol. Soc.* **9**: 1–103.

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [295].

***Lyroda errans* (Turner, 1936)**

***Gastrosericus errans*** Turner, R.E. (1936). Notes on fossorial Hymenoptera. XLV. On new sphegid wasps from Australia. *Ann. Mag. Nat. Hist.* (10) **18**: 533–545 [544]. Type data: syntypes (probable), ?BMNH \*M. adult, from Yanchep, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera, nest may be in pre-existing cavity, prey of *Bembix moma* Evans and Matthews. Biological references: Menke, A.S. (1977). *Aha*, a new genus of Australian Sphecidae, and a revised key to the world genera of the tribe Miscophini (Hymenoptera, Larrinae). *Pol. Pismo Entomol.* **47**: 671–681 (generic placement); Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (as prey).

***Lyroda michaelsoni* Schulz, 1908**

Taxonomic decision of Turner, R.E. (1914). New fossorial Hymenoptera from Australia and Tasmania. *Proc. Linn. Soc. N.S.W.* **38**: 608–623

***Lyroda michaelsoni michaelsoni* Schulz, 1908**

***Lyroda michaelsoni*** Schulz, W.A. (1908). Fossores. pp. 447–488 in Michaelson, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Vol. I Lfg. 13 Jena : G. Fischer [479]. Type data: syntypes (probable), ZMB \*F.M. adult, from Denham, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera, nest may be in pre-existing cavity.

***Lyroda michaelsoni tasmanica* Turner, 1914**

***Lyroda michaelsoni tasmanica*** Turner, R.E. (1914). New fossorial Hymenoptera from Australia and Tasmania. *Proc. Linn. Soc. N.S.W.* **38**: 608–623 [621]. Type data: syntypes (probable), whereabouts unknown, from Eaglehawk Neck, Tas.

Distribution: Tas.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera, nest may be in pre-existing cavity.

***Lyroda minima* Turner, 1936**

***Lyroda minima*** Turner, R.E. (1936). Notes on fossorial Hymenoptera. XLV. On new sphegid wasps from Australia. *Ann. Mag. Nat. Hist.* (10) **18**: 533-545 [545]. Type data: syntypes (probable), ?BMNH \*adult, from Yanchep, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera, nest may be in pre-existing cavity.

***Lyroda queenslandensis* Turner, 1916**

***Lyroda queenslandensis*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XXIII. *Ann. Mag. Nat. Hist.* (8) **18**: 277-288 [285]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Bundaberg, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Orthoptera, nest may be in pre-existing cavity.

***Sericophorus* Smith, 1851**

Taxonomic decision of Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [44].

***Sericophorus (Sericophorus)* Smith, 1851**

***Sericophorus*** Smith, F. (1851). Descriptions of some new species of exotic Hymenoptera in the British Museum and other collections. *Ann. Mag. Nat. Hist.* (2) **7**: 28-33 [32]. Type species *Sericophorus chalybaeus* Smith, 1851 by monotypy.

***Tachyrrhostus*** Saussure, H. de (1855). Mélanges hyménoptérologiques. *Mém. Soc. Phys. Hist. Nat. Genève* **14**: 1-67 [24]. Type species *Tachyrrhostus cyaneus* Saussure, 1855 by subsequent designation, see Pate, V.S.L. (1937). The generic names of the sphecoïd wasps and their type species. *Mem. Am. Entomol. Soc.* **9**: 1-103 [63].

This group is also found in New Guinea, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [299].

***Sericophorus (Sericophorus) alicae* Turner, 1936**

***Sericophorus alicae*** Turner, R.E. (1936). Notes on fossorial Hymenoptera. XLV. On new sphegid wasps from Australia. *Ann. Mag. Nat. Hist.* (10) **18**: 533-545 [542]. Type data: holotype, BMNH \*F. adult, from Mingenew, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) bicolor* Smith, 1873**

***Sericophorus bicolor*** Smith, F. (1873). Descriptions of new species of fossorial Hymenoptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (4) **12**: 291-300, 402-415 [405]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

Distribution: Lake Eyre basin, SW coastal, Qld., W.A.; only published localities Coopers Creek and Swan River. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) brisbanensis* Rayment, 1955**

***Sericophorus brisbanensis*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [26]. Type data: holotype, QM T7507 \*M. adult, from Brisbane, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) carinatus* Rayment, 1955**

***Sericophorus carinatus*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [26]. Type data: holotype, NMV 6776 \*F. adult, from Sandringham, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) castaneus* Rayment, 1955**

***Sericophorus castaneus*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [27]. Type data: holotype, QM F. adult, from Brisbane, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.



***Sericophorus (Sericophorus) chalybaeus* Smith, 1851**

Taxonomic decision of Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [302].

***Sericophorus (Sericophorus) chalybaeus chalybaeus* Smith, 1851**

***Sericophorus chalybeus* Smith, F. (1851).** Descriptions of some new species of exotic Hymenoptera in the British Museum and other collections. *Ann. Mag. Nat. Hist.* (2) 7: 28–33 [32]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia (as New Holland).

***Tachyrhostus cyaneus* Saussure, H. de (1855).** Mélanges hyménoptérologiques. *Mém. Soc. Phys. Hist. Nat.* Genève 14: 1–67 [26]. Type data: holotype, GMNH \*F. adult, from Australia (as New Holland).

Distribution: SE coastal, SW coastal, N.S.W., Vic., Tas., W.A.; only published localities Leura, Lane Cove, Gorae West, Eaglehawk Neck and Kalamunda. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Rayment, T. (1955). Biology of two hunting wasps. The specific descriptions of a new species and one allotype of *Sericophorus* and a new blowfly *Pollenia*. *Aust. Zool.* 12: 132–141 pl 19 (nest, prey).

***Sericophorus (Sericophorus) chalybaeus fulleri* Rayment, 1955**

***Sericophorus chalybaeus fulleri* Rayment, T. (1955).** Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* 19: 11–105 pls 1–11 [29]. Type data: holotype, ANIC F. adult, from Blundells, A.C.T.

Distribution: Murray-Darling basin, A.C.T.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) claviger* (Kohl, 1892)**

Taxonomic decision of Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [302].

***Sericophorus (Sericophorus) claviger claviger* (Kohl, 1892)**

***Tachyrhostus claviger* Kohl, F.F. (1892).** Neue Hymenopterenformen. *Ann. Naturh. Hofmus. Wien* 7: 197–234 [229 pl 13 figs 10, 18]. Type data: syntypes (probable), NHMW \*F. adult, from Australia.

Distribution: SE coastal, N.S.W., Vic.; only published localities Lane Cove, Woollahra, Mt. Victoria, Gippsland and Mordialloc. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Dalla Torre, C.G. de (1897). *Catalogus Hymenopterorum Hucusque Descriptorum Systematicus et Synonymicus*. Fossorres (Sphegidae). Leipzig : G. Engelmann Vol. 8 viii 749 pp. (generic placement).

***Sericophorus (Sericophorus) claviger burnsiellus* Rayment, 1955**

***Sericophorus claviger burnsiellus* Rayment, T. (1955).** Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* 19: 11–105 pls 1–11 [30]. Type data: holotype, NMV 6778 M. adult, from Chelsea, Vic.

Distribution: SE coastal, Vic.; only published localities Chelsea, Cavendish and Lilydale. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) cliffordii* Rayment, 1955**

***Sericophorus cliffordii* Rayment, T. (1955).** Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* 19: 11–105 pls 1–11 [30]. Type data: holotype, NMV 6780 \*F. adult, from Gorae West, Vic.

Distribution: SE coastal, Vic.; only published localities Gorae West and Portland. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Rayment, T. (1955). Biology of two hunting wasps. The specific descriptions of a new species and one allotype of *Sericophorus* and a new blowfly *Pollenia*. *Aust. Zool.* 12: 132–141 pl 19 (prey).

***Sericophorus (Sericophorus) cockerelli* Menke, 1976**

***Sericophorus hackeri* Rayment, T. (1955).** Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* 19: 11–105 pls 1–11 [34] [*non Zoyphium hackeri* Cockerell, 1932]. Type data: holotype, QM \*M. adult, from Brisbane, Qld.

***Sericophorus (Sericophorus) cockerelli* Bohart, R.M. & Menke, A.S. (1976).** *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [302] [*nom. nov.* for *Sericophorus hackeri* Rayment, 1955].

- Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.
- Sericophorus (Sericophorus) cyanophilus*** Rayment, 1955
- Sericophorus cyanophilus*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [31]. Type data: holotype, QM F. adult, from Stanthorpe, Qld.
- Distribution: Murray-Darling basin, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.
- Sericophorus (Sericophorus) elegantior*** Rayment, 1955
- Sericophorus elegantior*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [32]. Type data: holotype, NMV 6786 \*F. adult, from Bolgart, W.A.
- Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.
- Sericophorus (Sericophorus) froggatti*** Rayment, 1955
- Sericophorus froggatti*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [33]. Type data: holotype, DARI \*F. adult, from Mittagong, N.S.W.
- Distribution: SE coastal, N.S.W.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.
- Sericophorus (Sericophorus) funebris*** Turner, 1907
- Sericophorus funebris*** Turner, R.E. (1907). New species of Sphegidae from Australia. *Ann. Mag. Nat. Hist.* (7) **19**: 268-276 [276]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.
- Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.
- Sericophorus (Sericophorus) gracilis*** Rayment, 1955
- Sericophorus gracilis*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [33]. Type data: holotype, NMV 6790 \*M. adult, from Fraser Park, N.S.W.
- Distribution: Murray-Darling basin, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.
- Sericophorus (Sericophorus) inornatus*** Rayment, 1955
- Sericophorus inornatus*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [34]. Type data: holotype, QM T7506 \*F. adult, from Wynyard, Qld.; Wynyard, Tas. was meant.
- Distribution: Tas.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.
- Sericophorus (Sericophorus) lilacinus*** Rayment, 1955
- Sericophorus lilacinus*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [35]. Type data: holotype, QM \*F. adult, from Wynyard, Qld.; possibly Wynyard, Tas. was meant.
- Distribution: Tas.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.
- Sericophorus (Sericophorus) littoralis*** Rayment, 1955
- Sericophorus littoralis*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [35]. Type data: holotype, SAMA \*F. adult, from Ardrossan, S.A.
- Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.
- Sericophorus (Sericophorus) metallescens*** Rayment, 1955
- Sericophorus metallescens*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [36]. Type data: holotype, NMV 6790 \*M. adult, from Fraser Park, N.S.W.
- Distribution: SE coastal, N.S.W.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) minutus*** Rayment, 1955

***Sericophorus minutus*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11 [37]. Type data: holotype, ANIC M. adult, from 20 mi SE of Bourke, N.S.W.

Distribution: Murray-Darling basin, N.S.W.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) nigror*** Rayment, 1955

***Sericophorus nigror*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11 [37]. Type data: holotype, SAMA \*F. adult, from Lucindale, S.A.

Distribution: Murray-Darling basin, S.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) niveifrons*** Rayment, 1955

***Sericophorus niveifrons*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11 [38]. Type data: holotype, ANIC F. adult, from near Nocatunga, Qld.

Distribution: Bulloo River basin, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) occidentalis*** Rayment, 1955

***Sericophorus occidentalis*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11 [38]. Type data: holotype, WAM 37–3929 \*F. adult, from Narrogin, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) patongensis*** Rayment, 1955

***Sericophorus patongensis*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and

descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11 [39]. Type data: holotype, AM F. adult, from Patonga, N.S.W.

Distribution: SE coastal, N.S.W.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) pescotti*** Rayment, 1955

***Sericophorus pescotti*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11 [39]. Type data: holotype, NMV 6791 \*F. adult, from Sandringham, Vic.

Distribution: NE coastal, SE coastal, Qld., Vic.; only published localities Brisbane and Sandringham. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) raymenti*** Menke, 1976

***Sericophorus rufipes*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11 [47] [*non Zoyphium rufipes* Rohwer, 1911]. Type data: holotype, SAMA \*F. adult, from Tas.

***Sericophorus (Sericophorus) raymenti*** Menke A.S. (1976). in Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [302] [*nom. nov.* for *Sericophorus rufipes* Rayment, 1955].

Distribution: SE coastal, Murray-Darling basin, N.S.W., Vic., Tas.; only published localities Fraser Park, Woollahra, Kerang and Mt. Victoria. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) relucens*** Smith, 1856

Taxonomic decision of Turner, R.E. (1914). Notes on fossorial Hymenoptera. XIII. A revision of the Paranyssoninae. *Ann. Mag. Nat. Hist.* (8) **14**: 337–359 [359] and subspecies arrangement according to Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11.

***Sericophorus (Sericophorus) relucens relucens*** Smith, 1856

***Sericophorus relucens*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [357]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.



***Zoyphium rufipes*** Rohwer, S.A. (1911). Descriptions of new species of wasps with notes on described species. *Proc. U.S. Natl. Mus.* **40**(1837): 551-587 [585]. Type data: holotype, USNM 13767 \*F. adult, from Duinga, Dawson district, Qld.

Distribution: NE coastal, SE coastal, Murray-Darling basin, Lake Eyre basin, S Gulfs, SW coastal, N coastal, Qld., N.S.W., A.C.T., Vic., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Matthews, R.W. & Evans, H.E. (1971). Biological notes on two species of *Sericophorus* from Australia (Hymenoptera : Sphecidae). *Psyche Camb.* **77**: 413-429 (nest, prey).

***Sericophorus (Sericophorus) relucens nigricornis*** Rayment, 1955

***Sericophorus relucens nigricornis*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [43]. Type data: syntypes, ANIC F. adult, from 25 mi E of Durham Downs, Qld.

Distribution: Murray-Darling basin, N coastal, Qld., N.S.W., Vic., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) relucens ruficornis*** Rayment, 1955

***Sericophorus relucens ruficornis*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [44]. Type data: holotype, NMV 6805 \*F. adult, from Tennant Creek, N.T.

Distribution: Lake Eyre basin, N coastal, Qld., N.S.W., Vic., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) rufobasalis*** Rayment, 1955

***Sericophorus rufobasalis*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [46]. Type data: holotype, QM \*M. adult whereabouts unknown, QM specimen labeled "cotype", QM specimen labeled "paratype", from Brisbane, Qld.

Distribution: NE coastal, SE coastal, Murray-Darling basin, Qld., N.S.W. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) rufotibialis*** Rayment, 1955

***Sericophorus rufotibialis*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [47]. Type data: holotype, ANIC M. adult, from Blundells, A.C.T.

Distribution: Murray-Darling basin, A.C.T.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) rugosus*** Rayment, 1955

***Sericophorus rugosus*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [48]. Type data: holotype, QM F. adult, from Brisbane, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) sculpturatus*** Rayment, 1955

***Sericophorus sculpturatus*** Rayment, T. (1955). Biology of two hunting wasps. The specific descriptions of a new species and one allotype of *Sericophorus* and a new blowfly *Pollenia*. *Aust. Zool.* **12**: 132-141 pl 19 [133 pl 19 figs 1-12]. Type data: holotype, ANIC M. adult, from Busselton, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) spryi*** Rayment, 1955

***Sericophorus spryi*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [48]. Type data: holotype, NMV 6793 \*M. adult, from Chelsea, Vic.

Distribution: SE coastal, Vic.; only published localities Chelsea, Cavendish and Mordialloc. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) subviridis*** Rayment, 1955

***Sericophorus subviridis*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11-105 pls 1-11 [49]. Type data: holotype, NMV T6795 \*F. adult, from Victoria Valley, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) sydneyi*** Rayment, 1955

***Sericophorus sydneyi*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11 [50]. Type data: holotype, NMV 6796 \*F. adult, from Bolgart, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Matthews, R.W. & Evans, H.E. (1971). Biological notes on two species of *Sericophorus* from Australia (Hymenoptera : Sphecidae). *Psyche Camb.* **77**: 413–429 (prey).

***Sericophorus (Sericophorus) tallongensis*** Rayment, 1955

***Sericophorus tallongensis*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11 [50]. Type data: holotype, NMV 6798 \*M. adult, from Tallong, N.S.W.

Distribution: SE coastal, N.S.W.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) teliferopodus*** Rayment, 1955

Taxonomic decision of Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11 [52].

***Sericophorus (Sericophorus) teliferopodus teliferopodus*** Rayment, 1955

***Sericophorus teliferopodus*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11 [51]. Type data: holotype, NMV 6800 \*adult, from Sandringham, Vic.

Distribution: SE coastal, Vic.; only published localities Sandringham, Warburton and Cheltenham. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) teliferopodus okiellus*** Rayment, 1955

***Sericophorus teliferopodus okiellus*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11 [52]. Type data: holotype, NMV 7602 F. adult, from Melton, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) victoriensis*** Rayment, 1953

***Sericophorus victoriensis*** Rayment, T. (1953). New bees and wasps. Part XXI. Parasites on sericophorine wasps. *Vict. Nat.* **70**: 123–127 [124]. Type data: holotype, NMV 6803 \*F. adult, ANIC M. adult, from Portland, Vic.

Distribution: SE coastal, Vic., S.A.; only published localities Portland, Mt. Richmond and Mt. Gambier. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Rayment, T. (1955). Biology of two hunting wasps. The specific descriptions of a new species and one allotype of *Sericophorus* and a new blowfly *Pollenia*. *Aust. Zool.* **12**: 132–141 pl 19 (description of male, nest, prey); Rayment, T. (1959). Hyperparasitism by a minute fly and the specific description of a new species. *Aust. Zool.* **12**: 330–333 pl 39 (parasite, nest).

***Sericophorus (Sericophorus) violaceus*** Rayment, 1955

***Sericophorus violaceus*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11 [53]. Type data: holotype, SAMA \*adult, from Torrens Gorge, S.A.

Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Sericophorus) viridis*** (Saussure, 1855)

Taxonomic decision of Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11 [54].

***Sericophorus (Sericophorus) viridis viridis*** (Saussure, 1855)

***Tachyrrhostus viridis*** Saussure, H. de (1855). Mélanges hyménoptérologiques. *Mém. Soc. Phys. Hist. Nat. Genève* **14**: 1–67 [25]. Type data: holotype, GMNH \*F. adult, from Australia (as New Holland).

Distribution: SE coastal, Murray-Darling basin, SW coastal, N.S.W., A.C.T., Vic., W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera (Calliphoridae). Biological references: Matthews, R.W. & Evans, H.E. (1971). Biological notes on two species of *Sericophorus* from Australia (Hymenoptera : Sphecidae). *Psyche Camb.* 77: 413-429 (nest, prey).

***Sericophorus (Sericophorus) viridis roddi*** Rayment, 1955

***Sericophorus viridis roddi*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* 19: 11-105 pls 1-11 [55]. Type data: holotype, NMV 6804 F. adult, from Fraser Park, N.S.W.

Distribution: SE coastal, N.S.W., Vic.; only published localities Fraser Park, Shoalhaven and Cheltenham. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) Pate***, 1937

***Zoyphium*** Kohl, F.F. (1893). *Zoyphium*, eine neue Hymenopterengattung. *Verh. Zool.-Bot. Ges. Wien* 43: 569-572 [569] [*non Zoyphium* Agassiz, 1847]. Type species *Zoyphium sericeum* Kohl, 1893 by monotypy.

***Zoyphidium*** Pate, V.S.L. (1937). The generic names of the sphecoid wasps and their type species. *Mem. Am. Entomol. Soc.* 9: 1-103 [68] [*nom. nov.* for *Zoyphium* Kohl, 1893].

***Anacrucis*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* 19: 11-105 pls 1-11 [55]. Type species *Anacrucis laevigata* Rayment, 1955 by original designation.

***Sericophorus (Zoyphidium) affinis*** (Hacker and Cockerell, 1922)

***Zoyphium affine*** Hacker, H. & Cockerell, T.D.A. (1922). Some Australian wasps of the genera *Zoyphium* and *Arpactus*. *Mem. Qd. Mus.* 7: 283-290 [289]. Type data: syntypes, QM \*18F.+M. adult, from Brisbane, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) argyreus*** (Hacker and Cockerell, 1922)

***Zoyphium argyreum*** Hacker, H. & Cockerell, T.D.A. (1922). Some Australian wasps of the genera *Zoyphium* and *Arpactus*. *Mem. Qd. Mus.* 7: 283-290 [286]. Type data: syntypes, QM T2693 \*F. adult (labeled "type"), whereabouts of other syntype unknown, from Birkdale near Brisbane, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) asperithorax*** (Rayment, 1955)

***Anacrucis asperithorax*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* 19: 11-105 pls 1-11 [57]. Type data: holotype, NMV 6772 F. adult, from Bolgart, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) cingulatus*** (Rayment, 1955)

***Anacrucis cingulata*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* 19: 11-105 pls 1-11 [57]. Type data: holotype, DARI \*F. adult, from Milthorpe, N.S.W.

Distribution: Murray-Darling basin, N.S.W.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) clypeatus*** (Rayment, 1955)

***Anacrucis clypeata*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* 19: 11-105 pls 1-11 [58]. Type data: holotype, NMV 6774 \*F. adult, from S. Yarra, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) collaris*** (Hacker and Cockerell, 1922)

***Zoyphium collare*** Hacker, H. & Cockerell, T.D.A. (1922). Some Australian wasps of the genera *Zoyphium* and *Arpactus*. *Mem. Qd. Mus.* 7: 283-290 [287]. Type data: holotype, QM T2687 \*F. adult, from Birkdale near Brisbane, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) crassicornis*** (Cockerell, 1914)

***Zoyphium crassicorne*** Cockerell, T.D.A. (1914). A new fossorial wasp from Queensland. *Can. Entomol.* 46: 271-272 [271]. Type data: syntypes, QM 2696 2 F. adult, from Brisbane, Qld.



Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) dipteroides*** Turner, 1907

***Sericophorus dipteroides*** Turner, R.E. (1907). New species of Sphegidae from Australia. *Ann. Mag. Nat. Hist.* (7) 19: 268-276 [275]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Turner, R.E. (1914). Notes on fossorial Hymenoptera. XIII. A revision of the Paranyssoninae. *Ann. Mag. Nat. Hist.* (8) 14: 337-359 (taxonomy).

***Sericophorus (Zoyphidium) doddi*** (Turner, 1912)

***Zoyphium doddi*** Turner, R.E. (1912). Notes on fossorial Hymenoptera. IX. On some new species from the Australian and Austro-Malayan regions. *Ann. Mag. Nat. Hist.* (8) 10: 48-63 [59]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) emarginatus*** (Hacker and Cockerell, 1922)

***Zoyphium emarginatum*** Hacker, H., & Cockerell, T.D.A. (1922). Some Australian wasps of the genera *Zoyphium* and *Arpactus*. *Mem. Qd. Mus.* 7: 283-290 [285]. Type data: syntypes, QM 2690 \*3F., 1 M. adult, from Brisbane, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) erythrosoma*** (Turner, 1908)

***Zoyphium erythrosoma*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457-535 pl xxvi [493]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay, Townsville and Brisbane. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) ferrugineus*** (Rayment, 1955)

***Anacrucis ferruginea*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty

new species and six subspecies. *Mem. Natl. Mus. Vict.* 19: 11-105 pls 1-11 [59]. Type data: holotype, DARI \*F. adult, from Wauchope, N.S.W.

Distribution: SE coastal, N.S.W.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) flavofasciatus*** (Turner, 1916)

***Zoyphium flavofasciatum*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XIX. On new species from Australia. *Ann. Mag. Nat. Hist.* (8) 17: 116-136 [126]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Brisbane, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Hacker, H. & Cockerell, T.D.A. (1922). Some Australian wasps of the genera *Zoyphium* and *Arpactus*. *Mem. Qd. Mus.* 7: 283-290 (description of female).

***Sericophorus (Zoyphidium) frontalis*** (Turner, 1908)

***Zoyphium frontale*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457-535 pl xxvi [496]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) fuscipennis*** (Hacker and Cockerell, 1922)

***Zoyphium fuscipenne*** Hacker, H. & Cockerell, T.D.A. (1922). Some Australian wasps of the genera *Zoyphium* and *Arpactus*. *Mem. Qd. Mus.* 7: 283-290 [289]. Type data: holotype, QM T2692 \*F. adult, from Wedge Is., Tas.

Distribution: Tas.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) hackeri*** (Cockerell, 1932)

***Zoyphium hackeri*** Cockerell, T.D.A. (1932). Some wasps of the genus *Zoyphium*. *Mem. Qd. Mus.* 10: 117-118 [117]. Type data: holotype, QM T4020 \*F. adult, from Kuranda, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) humilis*** (Cockerell, 1932)

***Zoyphium humile*** Cockerell, T.D.A. (1932). Some wasps of the genus *Zoyphium*. *Mem. Qd. Mus.* **10**: 117–118 [117]. Type data: holotype, QM T4019 \*F. adult, from Bribie Is., Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) iridipennis*** (Turner, 1914)

***Zoyphium iridipenne*** Turner, R.E. (1914). Notes on fossorial Hymenoptera. XIII. A revision of the Paranyssoninae. *Ann. Mag. Nat. Hist. (8)* **14**: 337–359 [356]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Eaglehawk Neck, Tas.

Distribution: Tas.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) kohlii*** (Turner, 1908)

***Zoyphium kohlii*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [495]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) laevigatus*** (Rayment, 1955)

***Anacrucis laevigata*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11 [56]. Type data: holotype, NMV T6769 \*F. adult, from Frankston, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) niger*** (Hacker and Cockerell, 1922)

***Zoyphium nigrum*** Hacker, H. & Cockerell, T.D.A. (1922). Some Australian wasps of the genera *Zoyphium* and *Arpactus*. *Mem. Qd. Mus.* **7**: 283–290 [286]. Type data: syntypes, QM T2689 \*3M.+F. adult, from Brisbane and Caloundra, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) ornatus*** (Hacker and Cockerell, 1922)

***Zoyphium ornatum*** Hacker, H. & Cockerell, T.D.A. (1922). Some Australian wasps of the genera *Zoyphium* and *Arpactus*. *Mem. Qd. Mus.* **7**: 283–290 [287]. Type data: syntypes, QM T2697 \*M.,F. adult, from Birkdale near Brisbane, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) punctuosus*** (Rayment, 1955)

***Anacrucis punctuosa*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* **19**: 11–105 pls 1–11 [59]. Type data: holotype, ANIC F. adult, from Nedlands, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera (Tachinidae).

***Sericophorus (Zoyphidium) pusillus*** (Hacker and Cockerell, 1922)

***Zoyphium pusillum*** Hacker, H. & Cockerell, T.D.A. (1922). Some Australian wasps of the genera *Zoyphium* and *Arpactus*. *Mem. Qd. Mus.* **7**: 283–290 [288]. Type data: holotype, QM T2691 \*M. adult, from Brisbane, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) rufoniger*** (Turner, 1908)

***Zoyphium rufonigrum*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 [494 pl xxvi fig 8]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Darwin, N.T.

Distribution: N coastal, N.T.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Sericophorus (Zoyphidium) sericeus*** (Kohl, 1893)

***Zoyphium sericeum*** Kohl, F.F. (1893). *Zoyphium*, eine neue Hymenopterengattung. *Verh. Zool.-Bot. Ges. Wien* **43**: 569–572 [571]. Type data: holotype, ZMB \*F. adult, from Adelaide, S.A.

Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

*Sericophorus (Zoyphidium) splendidus* (Hacker and Cockerell, 1922)

*Zoyphium splendidum* Hacker, H. & Cockerell, T.D.A. (1922). Some Australian wasps of the genera *Zoyphium* and *Arpactus*. *Mem. Qd. Mus.* 7: 283-290 [288]. Type data: syntypes, QM T2694 \*8M.+F. adult, from Brisbane, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

*Sericophorus (Zoyphidium) striatulus* (Rayment, 1955)

*Anacrucis striatula* Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* 19: 11-105 pls 1-11 [56]. Type data: holotype, NMV T6770 \*F. adult, from Jamberoo, N.S.W.

Distribution: SE coastal, N.S.W.; only published localities Jamberoo and Mt. Kiera. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

*Sericophorus (Zoyphidium) tuberculatus* (Turner, 1936)

*Zoyphium tuberculatum* Turner, R.E. (1936). Notes on fossorial Hymenoptera. XLV. On new sphegid wasps from Australia. *Ann. Mag. Nat. Hist. (10)* 18: 533-545 [543]. Type data: holotype, BMNH \*F. adult, from Dedari, W.A.

Distribution: W plateau, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

### *Sphodrotes* Kohl, 1889

*Sphodrotes* Kohl, F.F. (1889). Neue Gattungen aus der Hymenopteren-Familie der Sphegiden. *Ann. Naturh. Hofmus. Wien* 4: 188-196 [188]. Type species *Sphodrotes punctuosa* Kohl, 1889 by monotypy.

*Sphodrotes acuticollis* Lomholdt, 1983

*Sphodrotes acuticollis* Lomholdt, O. (1983). A revision of *Sphodrotes* Kohl, 1889 (Hymenoptera, Sphecoidea, Larridae). *Steenstrupia* 9: 85-116 [96]. Type data: holotype, BMNH \*M. adult, from north Queensland.

Distribution: Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant, burrowing; prey Hemiptera.

*Sphodrotes cygnorum* Turner, 1910

*Sphodrotes cygnorum* Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* 1910: 253-356 [349]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Claremont, W.A.

Distribution: SW coastal, NW coastal, W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Hemiptera. Biological references: Turner, R.E. (1914). Notes on fossorial Hymenoptera. XIII. A revision of the Paranyssoninae. *Ann. Mag. Nat. Hist. (8)* 14: 337-359 [345] (redescription); Lomholdt, O. (1983). A revision of *Sphodrotes* Kohl, 1889 (Hymenoptera, Sphecoidea, Larridae). *Steenstrupia* 9: 85-116 (redescription, distribution).

*Sphodrotes dearmata* Lomholdt, 1983

*Sphodrotes dearmata* Lomholdt, O. (1983). A revision of *Sphodrotes* Kohl, 1889 (Hymenoptera, Sphecoidea, Larridae). *Steenstrupia* 9: 85-116 [96]. Type data: holotype, ANIC F. adult, from 10 (mi) W of Mullewa, W.A.

Distribution: SW coastal, NW coastal, W.A.; only published localities Darlington and Denham. Ecology: larva - sedentary, predator : adult - volant, burrowing; prey Hemiptera.

*Sphodrotes marginalis* Turner, 1914

*Sphodrotes marginalis* Turner, R.E. (1914). Notes on fossorial Hymenoptera. XIII. A revision of the Paranyssoninae. *Ann. Mag. Nat. Hist. (8)* 14: 337-359 [346]. Type data: lectotype, BMNH \*F. adult, from Maryborough, Qld., designation by Lomholdt, O. (1983). A revision of *Sphodrotes* Kohl, 1889 (Hymenoptera, Sphecoidea, Larridae). *Steenstrupia* 9: 85-116.

Distribution: NE coastal, Qld. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Hemiptera. Biological references: Lomholdt, O. (1983). A revision of *Sphodrotes* Kohl, 1889 (Hymenoptera, Sphecoidea, Larridae). *Steenstrupia* 9: 85-116 (redescription, distribution).

*Sphodrotes nemoralis* Evans, 1973

*Sphodrotes nemoralis* Evans, H.E. (1973). Observations on the nests and prey of *Sphodrotes nemoralis* sp.n. (Hymenoptera : Sphecidae). *J. Aust. Entomol. Soc.* 12: 311-314 [311]. Type data: holotype, ANIC F. adult, from Kuranda and vicinity, Qld.

Distribution: NE coastal, N Gulf, Qld. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Hemiptera (immature Pentatomoidea). Biological references: Evans, H.E. (1973). Observations on the nests and prey of *Sphodrotes nemoralis* sp.n. (Hymenoptera : Sphecidae). *J. Aust. Entomol. Soc.* 12: 311-314; Lomholdt, O. (1983). A revision of *Sphodrotes* Kohl, 1889 (Hymenoptera, Sphecoidea, Larridae). *Steenstrupia* 9: 85-116 (redescription, distribution).



***Sphodrotes occidentalis* Lomholdt, 1983**

***Sphodrotes occidentalis*** Lomholdt, O. (1983). A revision of *Sphodrotes* Kohl, 1889 (Hymenoptera, Sphecoidea, Larridae). *Steenstrupia* 9: 85–116 [102]. Type data: holotype, WAM 83/566 \*F. adult, from Busselton, W.A.

Distribution: SW coastal, W.A.; only published localities Busselton, Perth and Esperance. Ecology: larva - sedentary, predator : adult - volant, burrowing; prey Hemiptera.

***Sphodrotes ordinaria* Lomholdt, 1983**

***Sphodrotes ordinaria*** Lomholdt, O. (1983). A revision of *Sphodrotes* Kohl, 1889 (Hymenoptera, Sphecoidea, Larridae). *Steenstrupia* 9: 85–116 [89]. Type data: holotype, H.E. Evans collection \*F. adult, from 12–17 mi E Alice Springs, N.T.

Distribution: NE coastal, Murray-Darling basin, SE coastal, Lake Eyre basin, Qld., N.S.W., Vic., N.T. Ecology: larva - sedentary, predator : adult - volant, burrowing; prey Hemiptera.

***Sphodrotes prima* Lomholdt, 1983**

***Sphodrotes prima*** Lomholdt, O. (1983). A revision of *Sphodrotes* Kohl, 1889 (Hymenoptera, Sphecoidea, Larridae). *Steenstrupia* 9: 85–116 [103]. Type data: holotype, ANIC F. adult, from Carnamah, W.A.

Distribution: Lake Eyre basin, SW coastal, NW coastal, N.T., W.A. Ecology: larva - sedentary, predator : adult - volant, burrowing; prey Hemiptera.

***Sphodrotes punctuosa* Kohl, 1889**

***Sphodrotes punctuosa*** Kohl, F.F. (1889). Neue Gattungen aus der Hymenopteren-Familie der Sphegiden. *Ann. Naturh. Hofmus. Wien* 4: 188–196 [189 pl 8 figs 1,10,13,24]. Type data: holotype, NHMW \*M. adult, from N.S.W.

Distribution: SE coastal, Murray-Darling basin, N.S.W., Vic., Tas. Ecology: larva - sedentary, predator : adult - volant; prey Hemiptera. Biological references: Turner, R.E. (1914). Notes on fossorial Hymenoptera. XIII. A revision of the Paranyssoninae. *Ann. Mag. Nat. Hist. (8)* 14: 337–359 (redescription); Lomholdt, O. (1983). A revision of *Sphodrotes* Kohl, 1889 (Hymenoptera, Sphecoidea, Larridae). *Steenstrupia* 9: 85–116 (redescription, distribution).

***Sphodrotes rubra* Lomholdt, 1983**

***Sphodrotes rubra*** Lomholdt, O. (1983). A revision of *Sphodrotes* Kohl, 1889 (Hymenoptera, Sphecoidea, Larridae). *Steenstrupia* 9: 85–116 [94]. Type data: holotype, ANIC F. adult, from 44–45 km NE of Andado HS, Simpson Desert, N.T.

Distribution: Murray-Darling basin, Lake Eyre basin, N.S.W., S.A., N.T. Ecology: larva - sedentary, predator : adult - volant, burrowing; prey Hemiptera.

***Sphodrotes rubricata* Turner, 1910**

***Sphodrotes rubricatus*** Turner, R.E. (1910). New fossorial Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* 1910: 407–429 [426 pl 50 fig 13]. Type data: lectotype, BMNH \*F. adult, from Adelaide, S.A., designation by Lomholdt, O. (1983). A revision of *Sphodrotes* Kohl, 1889 (Hymenoptera, Sphecoidea, Larridae). *Steenstrupia* 9: 85–116.

***Sphodrotes pilosellus*** Turner, R.E. (1910). New fossorial Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* 1910: 407–429 [427 pl 50]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Taxonomic decision of Lomholdt, O. (1983). A revision of *Sphodrotes* Kohl, 1889 (Hymenoptera, Sphecoidea, Larridae). *Steenstrupia* 9: 85–116 [91].

Distribution: Murray-Darling basin, Lake Eyre basin, SW coastal, N coastal, S Gulfs, Qld, N.S.W., S.A., W.A., N.T. Ecology: larva - sedentary, predator : adult - volant; prey Hemiptera.

***Sphodrotes splendens* Lomholdt, 1983**

***Sphodrotes splendens*** Lomholdt, O. (1983). A revision of *Sphodrotes* Kohl, 1889 (Hymenoptera, Sphecoidea, Larridae). *Steenstrupia* 9: 85–116 [111]. Type data: holotype, ANIC F. adult, from 8 km S of Coulomb Point, West Kimberley, W.A.

Distribution: Lake Eyre basin, N coastal, N Gulf, W.A., N.T., Qld.; only published localities near Coulomb Point, near Cape Bertholet, Avon Downs and near Nappamerry. Ecology: larva - sedentary, predator : adult - volant, burrowing; prey Hemiptera.

***Larrius* Menke, 1967**

***Larrius*** Menke, A.S. (1967). New genera of Old World Sphecidae (Hymenoptera). *Entomol. News* 78: 29–35 [29]. Type species *Sericophorus abnormis* Turner, 1914 by monotypy and original designation.

***Larrius abnormis* (Turner, 1914)**

***Sericophorus abnormis*** Turner, R.E. (1914). Notes on fossorial Hymenoptera. XIII. A revision of the Paranyssoninae. *Ann. Mag. Nat. Hist. (8)* 14: 337–359 [352]. Type data: holotype, BMNH \*M. (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: Lake Eyre basin, SW coastal, S.A., W.A.; only published localities near Musgrave Park, Edeowie Homestead and Yallingup. Ecology: larva - sedentary, predator : adult - volant. Biological references: Menke, A.S. (1979). A review of the genus *Larrius* Menke (Hymenoptera : Sphecidae). *Aust. J. Zool.* 27: 453–463 (redescription, generic placement).

***Larrisson azyx* Menke, 1979**

***Larrisson azyx*** Menke, A.S. (1979). A review of the genus *Larrisson* Menke (Hymenoptera : Sphecidae). *Aust. J. Zool.* **27**: 453–463 [460]. Type data: holotype, ANIC M. adult, from Kununurra and vicinity (Lily Creek), W.A.

Distribution: N coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey of *Bembix moma* Evans and Matthews. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (as *Larrisson* sp., as prey).

***Larrisson nedymus* Menke, 1979**

***Larrisson nedymus*** Menke, A.S. (1979). A review of the genus *Larrisson* Menke (Hymenoptera : Sphecidae). *Aust. J. Zool.* **27**: 453–463 [455]. Type data: holotype, ANIC F. adult, from Nilemah Station 50 mi S of Denham, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volent.

***Larrisson rieki* Menke, 1979**

***Larrisson rieki*** Menke, A.S. (1979). A review of the genus *Larrisson* Menke (Hymenoptera : Sphecidae). *Aust. J. Zool.* **27**: 453–463 [457]. Type data: holotype, UCDC \*M. adult, from 10 mi W Mullewa, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volent.

***Nitela* Latreille, 1809**

***Nitela*** Latreille, P.A. (1809). *Genera Crustaceorum et Insectorum secundum ordinem naturalem in familiis disposita, iconibus exemplisque plurimis explicata*. Paris : A. Koenig Vol. 4 397 pp. [77]. Type species *Nitela spinolae* Latreille, 1809 by monotypy.

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [322].

***Nitela australiensis* Schulz, 1908**

***Nitela australiensis*** Schulz, W.A. (1908). Fossores. pp. 447–488 in Michaelsen, W. & Hartmeyer, R. (eds.) *Die Fauna Südwest-Australiens*. Vol. I Lfg. 13 Jena : G. Fischer [483]. Type data: syntypes (probable), ZMB \*F. adult, from Denham, W.A.

***Nitela nigricans*** Turner, R.E. (1910). New fossorial Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* **1910**: 407–429 pl 50 [428]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Bundaberg, Qld.

Taxonomic decision of Turner, R.E. (1916). Notes on fossorial Hymenoptera. XXIII. *Ann. Mag. Nat. Hist.* (8) **18**: 277–288 [286].

Distribution: NE coastal, SW coastal, NW coastal, Qld., Tas., W.A.; only published localities Bundaberg, Eaglehawk Neck, Yallingup and Denham. Ecology: larva - sedentary, arboreal, predator : adult - volent; nest in existing holes in wood.

***Nitela kurandae* Turner, 1908**

***Nitela kurandae*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [508]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; only published localities Cairns, Kuranda, Bundaberg and Caloundra. Ecology: larva - sedentary, arboreal, predator : adult - volent; nest in existing holes in wood.

***Nitela sculpturata* Turner, 1916**

***Nitela reticulata*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [508] [*non Nitela reticulata* Ducke, 1908]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

***Nitela sculpturata*** Turner, R.E. (1916). Notes on fossorial Hymenoptera, xxiv. On the genus *Nitela* Latr. *Ann. Mag. Nat. Hist.* (8) **18**: 343–345 [343] [*nom. nov.* for *Nitela reticulata* Turner, 1908].

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, arboreal, predator : adult - volent; nest in existing holes in wood.

***Auchenophorus* Turner, 1907**

***Auchenophorus*** Turner, R.E. (1907). New species of Sphegidae from Australia. *Ann. Mag. Nat. Hist.* (7) **19**: 268–276 [270]. Type species *Auchenophorus coruscans* Turner, 1907 by original designation.

***Auchenophorus aeneus* Turner, 1907**

***Auchenophorus aeneus*** Turner, R.E. (1907). New species of Sphegidae from Australia. *Ann. Mag. Nat. Hist.* (7) **19**: 268–276 [271]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay, Cairns and Kuranda. Ecology: larva - sedentary, predator: adult - volent.

***Auchenophorus coruscans* Turner, 1907**

***Auchenophorus coruscans*** Turner, R.E. (1907). New species of Sphegidae from Australia. *Ann. Mag. Nat. Hist.* (7) **19**: 268–276 [271]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator: adult - volant. Biological references: Turner, R.E. (1910) Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253-356 [pl 32 fig 15].

***Auchenophorus fulvicornis*** Turner, 1907

***Auchenophorus fulvicornis*** Turner, R.E. (1907). New species of Sphegidae from Australia. *Ann. Mag. Nat. Hist.* (7) **19**: 268-276 [272]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, Qld.; only published localities Kuranda, Cairns. Ecology: larva - sedentary, predator: adult - volant. Biological references: Turner, R.E. (1916). Notes on fossorial Hymenoptera. XIII. On some Australian genera. *Ann. Mag. Nat. Hist.* (8) **18**: 277-288 (description of female).

***Pison*** Jurine, 1808

Taxonomic decision of Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [45].

***Pison (Pison)*** Jurine, 1808

***Pison*** Jurine, L. (1808). in Spinola, M. *Insectorum Liguria Species Novae aut Rariores*, quas in agro ligustico nuper detexit, descripsit, et iconibus illustravit Maximilianus Spinola, adjecto catalogo specierum auctoribus iam enumeratarum, quae in eadem regione passim occurrunt. Genuae : Gravier Vol. 2 ii 262 pp. [255]. Type species *Pison jurinei* Spinola, 1808 by monotypy. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp.

This group is found worldwide except America north of Mexico, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [332].

***Pison (Pison) aberrans*** Turner, 1908

***Pison (Parapison) aberrans*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457-535 pl xxvi [519]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Pison (Pison) areniferum*** Evans, 1981

***Pison (Pison) areniferum*** Evans, H.E. (1981). Biosystematics of ground-nesting species of *Pison* in Australia (Hymenoptera : Sphecidae : Trypoxylini). *Proc. Entomol. Soc. Wash.* **83**: 421-427 [422]. Type data: holotype, QM T8498 \*F. adult, from Amby, Qld.

Distribution: Murray-Darling basin, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey spiders, nest in ground.

***Pison (Pison) auratum*** Shuckard, 1838

***Pison auratus*** Shuckard, W.E. (1838). Descriptions of new exotic aculeate Hymenoptera. *Trans. Entomol. Soc. Lond.* **2**: 68-82 [78]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cape of Good Hope; label is in error, species is Australian, *teste* Smith, F. (1869). Descriptions of new species of the genus *Pison*, and a synonymic list of those already described. *Trans. Entomol. Soc. Lond.* **1869**: 289-300.

Distribution: N coastal, W.A., N.T. Ecology: larva - sedentary, predator : adult - volant; prey spiders, uses abandoned nests of *Sceliphron laetum*. Biological references: Naumann, I.D. (1983). The biology of mud nesting Hymenoptera (and their associates) and Isoptera in rock shelters of the Kakadu Region, Northern Territory. *Aust. Nat. Parks & Wildlife Service Spec. Publ.* **10** pp. 127-189 (biology).

***Pison (Pison) aureosericeum*** Rohwer, 1915

***Pison aureosericeum*** Rohwer, S.A. (1915). Descriptions of new species of Hymenoptera. *Proc. U.S. Natl. Mus.* **49**(2105): 205-249 [246]. Type data: holotype, USNM 14254 \*adult, from Duaringa, Qld.

Distribution: NE coastal, Qld., Vic.; only published localities Duaringa, Mackay, Kuranda and Vic. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest in old eumenid nests. Biological references: Hacker, H. (1918). Entomological contributions. *Mem. Qd. Mus.* **6**: 106-111 pls 31-32 (nest).

***Pison (Pison) aurifex*** Smith, 1869

***Pison aurifex*** Smith, F. (1869). Descriptions of new species of the genus *Pison*; and a synonymic list of those previously described. *Trans. Entomol. Soc. Lond.* **1869**: 289-300 [293]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: N coastal, N.T.; only published localities Burnside and Marrakai. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground. Biological references: Turner, R.E. (1916). Notes on the wasps of the genus *Pison*, and some allied genera. *Proc. Zool. Soc. Lond.* **1916**: 591-629 (redescription).



***Pison (Pison) auriventre* Turner, 1908**

***Pison auriventre*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [512]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Vic.

Distribution: NE coastal, Murray-Darling basin, Qld., N.S.W., A.C.T., Vic. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey spiders, nest in ground. Biological references: Evans, H.E. (1981). Biosystematics of ground-nesting species of *Pison* in Australia (Hymenoptera : Sphecidae : Trypoxylini). *Proc. Entomol. Soc. Wash.* **83**: 421–427 (redescription, biology).

***Pison (Pison) barbatum* Evans, 1981**

***Pison (Pison) barbatum*** Evans, H.E. (1981). Biosystematics of ground-nesting species of *Pison* in Australia (Hymenoptera : Sphecidae : Trypoxylini). *Proc. Entomol. Soc. Wash.* **83**: 421–427 [424]. Type data: holotype, QM T8500 \*F. adult, from Port Douglas, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey spiders, nest in ground.

***Pison (Pison) basale* Smith, 1869**

***Pison basalis*** Smith, F. (1869). Descriptions of new species of the genus *Pison*; and a synonymic list of those previously described. *Trans. Entomol. Soc. Lond.* **1869**: 289–300 [292]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: NE coastal, Qld.; only published localities Australia and Mackay. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground.

***Pison (Pison) caliginosum* Turner, 1908**

***Pison (Parapison) caliginosum*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [518]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, Qld.; only published localities Kuranda and near Cairns. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Pison (Pison) ciliatum* Evans, 1981**

***Pison (Pison) ciliatum*** Evans, H.E. (1981). Biosystematics of ground-nesting species of *Pison* in

Australia (Hymenoptera : Sphecidae : Trypoxylini). *Proc. Entomol. Soc. Wash.* **83**: 421–427 [423]. Type data: holotype, QM T8499 \*F. adult, from Amby, Qld.

Distribution: Murray-Darling basin, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey spiders, nest in ground.

***Pison (Pison) congenerum* Turner, 1916**

***Pison congener*** Turner, R.E. (1916). Notes on the wasps of the genus *Pison*, and some allied genera. *Proc. Zool. Soc. Lond.* **1916**: 591–629 [607]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground.

***Pison (Pison) decipiens* Smith, 1869**

***Pison decipiens*** Smith, F. (1869). Descriptions of new species of the genus *Pison*; and a synonymic list of those previously described. *Trans. Entomol. Soc. Lond.* **1869**: 289–300 [295]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

Distribution: SE coastal, NW coastal, N.S.W., W.A.; only published localities Homebush and Champion Bay. Ecology: larva - sedentary, arboreal, predator : adult - volant; prey spiders, mudnest. Biological references: Froggatt, W.W. (1894). On the nests and habits of Australian Vespidae and Larridae. *Proc. Linn. Soc. N.S.W.* (2) **9**: 27–34 (biology).

***Pison (Pison) deperditum* Turner, 1917**

***Pison (Pisonitus) deperditum*** Turner, R.E. (1917). Notes on fossorial Hymenoptera. XXV. On new Sphecoidea in the British Museum. *Ann. Mag. Nat. Hist.* (8) **19**: 104–113 [109]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Darwin, N.T.

Distribution: N coastal, N.T.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Pison (Pison) dimidiatum* Smith, 1869**

***Pison dimidiatus*** Smith, F. (1869). Descriptions of new species of the genus *Pison*; and a synonymic list of those previously described. *Trans. Entomol. Soc. Lond.* **1869**: 289–300 [295]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground.

***Pison (Pison) dives* Turner, 1916**

***Pison dives*** Turner, R.E. (1916). Notes on the wasps of the genus *Pison*, and some allied genera. *Proc. Zool. Soc. Lond.* **1916**: 591–629 [608]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground.

***Pison (Pison) erythrocerum* Kohl, 1884**

***Parapison ruficornis*** Smith, F. (1869). Descriptions of new species of the genus *Pison*; and a synonymic list of those previously described. *Trans. Entomol. Soc. Lond.* **1869**: 289–300 [300] [*non Parapison ruficornis* Smith, 1856]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia.

***Pison erythrocerum*** Kohl, F.F. (1884). Die Gattungen und Arten der Larriden Autorum. *Verh. Zool.-Bot. Ges. Wien* **34**: 171–268, 327–454 [186] [*nom. nov.* for *Parapison ruficornis* Smith, 1869].

Distribution: NE coastal, Qld.; only published localities Mackay, Kuranda and Australia. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground.

***Pison (Pison) erythrogastrum* Rohwer, 1915**

***Pison (Parapison) erythrogastrum*** Rohwer, S.A. (1915). Descriptions of new species of Hymenoptera. *Proc. U.S. Natl. Mus.* **49**(2105) : 205–249 [247]. Type data: holotype, USNM 14255 \*F. adult, from Duaringa, Qld.

Distribution: NE coastal, SW coastal, Qld., W.A.; only published localities Duaringa and Kalamunda. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [335] (generic placement).

***Pison (Pison) exclusum* Turner, 1916**

***Pison (Parapison) exclusum*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XIX. On new species from Australia. *Ann. Mag. Nat. Hist.* (8) **17**: 116–136 [127]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Brisbane, Qld.

Distribution: NE coastal, Murray-Darling basin, Qld., Vic.; only published localities Brisbane, Horsham. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Pison (Pison) exornatum* Turner, 1916**

***Pison exornatum*** Turner, R.E. (1916). Notes on the wasps of the genus *Pison*, and some allied genera. *Proc.*

*Zool. Soc. Lond.* **1916**: 591–629 [614]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground.

***Pison (Pison) exultans* Turner, 1916**

***Pison exultans*** Turner, R.E. (1916). Notes on the wasps of the genus *Pison*, and some allied genera. *Proc. Zool. Soc. Lond.* **1916**: 591–629 [615]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Vic.

Distribution: Vic.; type locality only as Vic. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground.

***Pison (Pison) fenestratum* Smith, 1869**

***Pison nitidus*** Smith, F. (1868). Descriptions of aculeate Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* **1868**: 231–258 [248] [*non Pison nitidus* Smith, 1858]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

***Pison fenestratus*** Smith, F. (1869). Descriptions of new species of the genus *Pison*; and a synonymic list of those previously described. *Trans. Entomol. Soc. Lond.* **1869**: 289–300 [291] [*nom. nov.* for *Pison nitidus* Smith, 1868].

Distribution: Lake Eyre basin, SW coastal, NW coastal, N.T., W.A.; only published localities Hermannsburg, Yallingup and Champion Bay. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground.

***Pison (Pison) festivum* Smith, 1869**

***Pison festivus*** Smith, F. (1869). Descriptions of new species of the genus *Pison*; and a synonymic list of those previously described. *Trans. Entomol. Soc. Lond.* **1869**: 289–300 [296]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

Distribution: SW coastal, NW coastal, W.A.; only published localities Swan River and Champion Bay. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground.

***Pison (Pison) fraterculus* Turner, 1916**

***Pison fraterculus*** Turner, R.E. (1916). Notes on the wasps of the genus *Pison*, and some allied genera. *Proc. Zool. Soc. Lond.* **1916**: 591–629 [610]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground.

***Pison (Pison) fuscipenne* Smith, 1869**

***Pison fuscipennis*** Smith, F. (1869). Descriptions of new species of the genus *Pison*; and a synonymic list of those



previously described. *Trans. Entomol. Soc. Lond.* **1869**: 289–300 [294]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground.

***Pison (Pison) ignavum* Turner, 1908**

***Pison ignavum*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [511]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Cairns, Qld.

Distribution: NE coastal, SE coastal, Qld., Vic.; only published localities Mackay, Cairns, Kuranda, Brisbane area and Melbourne, also on many Pacific islands. Ecology: larva - sedentary, arboreal, predator : adult - volent; prey spiders, mudnest on leaf of bush. Biological references: Evans, H.E., Matthews, R.W. & Hook, A. (1981). Notes on the nests and prey of six species of *Pison* in Australia (Hymenoptera : Sphecidae). *Psyche Camb.* **87**: 221–230 (nest).

***Pison (Pison) inconspicuum* Turner, 1916**

***Pison inconspicuum*** Turner, R.E. (1916). Notes on the wasps of the genus *Pison*, and some allied genera. *Proc. Zool. Soc. Lond.* **1916**: 591–629 [612]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Mundaring Weir, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground.

***Pison (Pison) infumatum* Turner, 1908**

***Pison infumatum*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [510]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Port Darwin, N.T.

Distribution: N coastal, N.T.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground.

***Pison (Pison) iridipenne* Smith, 1879**

***Pison iridipenne*** Smith, F. (1879). Descriptions of new species of aculeate Hymenoptera collected by the Rev. Thos. Blackburn in the Sandwich Islands. *J. Linn. Soc. Lond. Zool.* **14**: 674–685 [676]. Type data: syntypes (probable), ?BMNH \*adult, from Honolulu.

Distribution: NE coastal, Qld.; Australian localities are doubtful, species widely distributed on Pacific islands and Philippines. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud in pre-existing cavity in wood, or in ground. Biological references: Krobein, K.V. (1949). The

Aculeate Hymenoptera of Micronesia. I Scoliidæ, Mutillidæ, Pompilidæ and Sphecidae. *Proc. Hawaii. Entomol. Soc.* **13**: 367–410 (queries Australian records).

***Pison (Pison) lutescens* Turner, 1916**

***Pison lutescens*** Turner, R.E. (1916). Notes on the wasps of the genus *Pison*, and some allied genera. *Proc. Zool. Soc. Lond.* **1916**: 591–629 [604]. Type data: holotype, BMNH \*F. adult, from Mundaring Weir, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground.

***Pison (Pison) mandibulatum* Turner, 1916**

***Pison mandibulatum*** Turner, R.E. (1916). Notes on the wasps of the genus *Pison*, and some allied genera. *Proc. Zool. Soc. Lond.* **1916**: 591–629 [605]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground.

***Pison (Pison) marginatum* Smith, 1856**

***Pison marginatus*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [314]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Hunter River, N.S.W.

Distribution: NE coastal, SE coastal, Murray-Darling, Qld., N.S.W., A.C.T., Vic., S.A.; only published localities S.A., Mackay, Hunter River, Canberra area and Melbourne. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud in pre-existing cavity in wood (trap nest). Biological references: Evans, H.E., Matthews, R.W. & Hook, A. (1981). Notes on the nests and prey of six species of *Pison* in Australia (Hymenoptera : Sphecidae). *Psyche Camb.* **87**: 221–230 (nest, prey).

***Pison (Pison) melanocephalum* Turner, 1908**

***Pison melanocephalum*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 [515 pl xxvi fig 12]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground.

***Pison (Pison) meridionale* Turner, 1916**

***Pison meridionale*** Turner, R.E. (1916). Notes on the wasps of the genus *Pison*, and some allied genera. *Proc.*



*Zool. Soc. Lond.* **1916**: 591–629 [611]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground.

***Pison (Pison) noctulum* Turner, 1908**

***Pison (Parapison) noctulum* Turner, R.E. (1908).** Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [516]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay and Kuranda. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Pison (Pison) peletieri* Le Guillou, 1841**

***Pison peletieri* Le Guillou, E.J.F. (1841).** Description de 20 espèces nouvelles appartenant à diverses familles d'Hyménoptères. *Rev. Zool.* **4**: 322–325 [324]. Type data: syntypes (probable), MNHP \*F. adult, from N. Australia (as Aust. sept.).

Distribution: Northern Australia type locality only. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground.

***Pison (Pison) perplexum* Smith, 1856**

***Pison perplexus* Smith, F. (1856).** *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London: British Museum [314]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: SW coastal, Vic., W.A.; only published localities Vic. and S. Perth. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud in pre-existing cavity in wood. Biological references: Roth, H.L. (1885). Notes on the habits of some Australian Hymenoptera Aculeata. (With description of a new species by W.F. Kirby). *J. Linn. Soc. (Zool.)* **18**: 318–328 (biology); Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253–356 (description of female).

***Pison (Pison) pertinax* Turner, 1908**

***Pison (Parapison) pertinax* Turner, R.E. (1908).** Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.*

**1908**: 457–535 pl xxvi [517]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay, Cairns and Brisbane. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Pison (Pison) priscum* Turner, 1908**

***Pison insulare priscum* Turner, R.E. (1908).** Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [510]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground.

***Pison (Pison) pulchrinum* Turner, 1916**

***Pison pulchrinum* Turner, R.E. (1916).** Notes on the wasps of the genus *Pison*, and some allied genera. *Proc. Zool. Soc. Lond.* **1916**: 591–629 [613]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Kuranda, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground.

***Pison (Pison) punctulatum* Kohl, 1884**

***Pison punctulatum* Kohl, F.F. (1884).** Neue Hymenopteren in den Sammlungen des k.k. zoologischen Hof-Cabinetes zu Wien. ii. *Verh. Zool.-Bot. Ges. Wien* **33**: 331–386 [336]. Type data: syntypes (probable), NHMW \*adult, from Peak Downs, Qld.

Distribution: NE coastal, Qld., N.S.W.; only published localities N.S.W., Peak Downs, Mackay. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground.

***Pison (Pison) ruficornis* Smith, 1856**

***Pison (Pisonitis) ruficornis* Smith, F. (1856).** *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [315]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from MacIntyre River, Qld.

Distribution: NE coastal, N coastal, Qld., Vic., W.A.; only published localities Vic., Macintyre River, Mackay, Kuranda and Ord River. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*.

Berkeley : Univ. California Press ix 695 pp. (generic placement); Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi (redescription).

***Pison (Pison) rufipes* Shuckard, 1838**

***Pison (Pisonitus) rufipes* Shuckard, W.E. (1838).** Descriptions of new exotic aculeate Hymenoptera. *Trans. Entomol. Soc. Lond.* **2**: 68–82 [79]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Tas. (as Van Diemen's Land).

Distribution: NE coastal, SE coastal, SW coastal, Qld., N.S.W., Vic., Tas., W.A.; also in New Caledonia. Ecology: larva - sedentary, arboreal, predator : adult - volent; prey spiders, mudnest. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement); Evans, H.E., Matthews, R.W. & Hook, A. (1981). Notes on the nests and prey of six species of *Pison* in Australia (Hymenoptera : Sphecidae). *Psyche Camb.* **87**: 221–230 (nest, prey).

***Pison (Pison) scabrum* Turner, 1908**

***Pison scabrum* Turner, R.E. (1908).** Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [509]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground.

***Pison (Pison) separatum* Smith, 1869**

***Pison separatus* Smith, F. (1869).** Descriptions of new species of the genus *Pison*; and a synonymic list of those previously described. *Trans. Entomol. Soc. Lond.* **1869**: 289–300 [294]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground.

***Pison (Pison) simillimum* Smith, 1869**

***Pison simillimus* Smith, F. (1869).** Descriptions of new species of the genus *Pison*; and a synonymic list of those previously described. *Trans. Entomol. Soc. Lond.* **1869**: 289–300 [292]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: NE coastal, SE coastal, Qld., Vic.; only published localities E Australia, Brisbane and Vic. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground.

***Pison (Pison) simulans* Turner, 1915**

***Pison (Parapison) simulans* Turner, R.E. (1915).** Notes on fossorial Hymenoptera. XVI. On the Thynnidae, Scolidae and Crabronidae of Tasmania. *Ann. Mag. Nat. Hist.* (8) **15**: 537–559 [559]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Eaglehawk Neck, Tas.

Distribution: Tas.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud or in ground. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Pison (Pison) spinolae* Shuckard, 1838**

***Pison spinolae* Shuckard, W.E. (1838).** Descriptions of new exotic aculeate Hymenoptera. *Trans. Entomol. Soc. Lond.* **2**: 68–82 [76]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Sydney, N.S.W.

***Pison australis* Saussure, H. de (1855).** Mélanges hyménoptérologiques. *Mém. Soc. Phys. Hist. Nat. Genève* **14**: 1–67 [11]. Type data: syntypes (probable), whereabouts unknown, from Australia (as New Holland).

***Pison tasmanicus* Smith, F. (1856).** *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [316]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Tas.

Taxonomic decision of Smith, F. (1869). Descriptions of new species of the genus *Pison*, and a synonymic list of those previously described. *Trans. Entomol. Soc. Lond.* **1869**: 289–300 [290].

Distribution: NE coastal, SE coastal, Murray-Darling basin, S Gulfs, N coastal, Qld., N.S.W., A.C.T., Tas., S.A., W.A., Norfolk Is.; also New Zealand. Ecology: larva - sedentary, predator : adult - volent; prey spiders, nest using mud in pre-existing cavity in wood. Biological references: Cowley, D.R. (1962). Aspects of the biology of the immature stages of *Pison spinolae* Shuckard (Hymenoptera : Sphecidae). *Trans. R. Soc. N.Z.* **1**: 355–363; Callan, E.M. (1977). *Macrosiagon diversiceps* (Coleoptera : Rhipiphoridae) reared from a sphecid wasp, with notes on other species. *Aust. Entomol. Mag.* **4**: 45–47 (parasite); Evans, H.E., Matthews, R.W. & Hook, A. (1981). Notes on the nests and prey of six species of *Pison* in Australia (Hymenoptera : Sphecidae). *Psyche Camb.* **87**: 221–230 (nest, prey).

***Pison (Pison) strenuum* Turner, 1916**

***Pison strenuum* Turner, R.E. (1916).** Notes on the wasps of the genus *Pison*, and some allied genera. *Proc. Zool. Soc. Lond.* **1916**: 591–629 [606]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Yallingup, S. Perth, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground.

***Pison (Pison) tenebrosus* Turner, 1908**

***Pison (Parapison) tenebrosus* Turner, R.E. (1908).** Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457-535 pl xxvi [518]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Pison (Pison) tibialis* Smith, 1869**

***Pison tibialis* Smith, F. (1869).** Descriptions of new species of the genus *Pison*; and a synonymic list of those previously described. *Trans. Entomol. Soc. Lond.* **1869**: 289-300 [292]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from W.A.

Distribution: NE coastal, Murray-Darling basin, SW coastal, Qld., N.S.W., W.A.; only published localities Brisbane, Springsure, Coolabah and Kalamunda. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground.

***Pison (Pison) vestitus* Smith, 1856**

***Pison vestitus* Smith, F. (1856).** *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207-497 London: British Museum [315]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: only published localities Australia and E Australia. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground.

***Pison (Pison) virosum* Turner, 1908**

***Pison virosum* Turner, R.E. (1908).** Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457-535 pl xxvi [513]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground.

***Pison (Pison) westwoodii* Shuckard, 1838**

***Pison westwoodii* Shuckard, W.E. (1838).** Descriptions of new exotic aculeate Hymenoptera. *Trans. Entomol.*

*Soc. Lond.* **2**: 68-82 [77]. Type data: syntypes (probable), OUM or BMNH \*F. adult, from Tas. (as Van Diemen's Land).

***Pison obliquus* Smith, F. (1856).** *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207-497 London: British Museum [316]. Type data: syntypes (probable), OUM \*F. adult, from Tas.

Taxonomic decision of Turner, R.E. (1916). Notes on the wasps of the genus *Pison*, and some allied genera. *Proc. Zool. Soc. Lond.* **1916**: 591-629 [608].

Distribution: NE coastal, Murray-Darling basin, SW coastal, N coastal, Qld., A.C.T., Tas., W.A., N.T. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud in pre-existing cavity in wood. Biological references: Evans, H.E., Matthews, R.W. & Hook, A. (1981). Notes on the nests and prey of six species of *Pison* in Australia (Hymenoptera : Sphecidae). *Psyche Camb.* **87**: 221-230 (nest).

***Pison (Pisonoides) Smith, 1858***

***Pisonoides* Smith, F. (1858).** *Catalogue of the hymenopterous insects collected at Sarawak, Borneo; Mount Ophir, Malacca; and Singapore, by A.R. Wallace*. *J. Linn. Soc. Lond. Zool* **2**: 42-130 [104] [described with subgeneric rank in *Pison* Jurine, 1808]. Type species *Pison obliteratum* Smith, 1858 by monotypy.

This group is also found in the Oriental Region, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [332].

***Pison (Pisonoides) difficile* Turner, 1908**

***Pison (Aulacophilus) difficile* Turner, R.E. (1908).** Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457-535 pl xxvi [520]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay or Cairns, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay and Cairns. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground. Biological references: Turner, R.E. (1916). Notes on the wasps of the genus *Pison*, and some allied genera. *Proc. Zool. Soc. Lond.* **1916**: 591-629 (generic placement).

***Pison (Pisonoides) icarioides* Turner, 1908**

***Pison (Aulacophilus) icarioides* Turner, R.E. (1908).** Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457-535 [521 pl xxvi fig 13]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.



Distribution: NE coastal, Qld.; only published localities Mackay, Cairns and Brisbane. Ecology: larva - sedentary, predator : adult - volant; prey spiders, nest using mud or in ground. Biological references: Turner, R.E. (1916). Notes on the wasps of the genus *Pison*, and some allied genera. *Proc. Zool. Soc. Lond.* 1916: 591-629 (generic placement).

***Trypoxylon* Latreille, 1796**

Taxonomic decision of Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [45].

***Trypoxylon (Trypoxylon)* Latreille, 1796**

***Trypoxylon*** Latreille, P.A. (1796). *Précis des Caractères Génériques des Insectes*, disposés dans un ordre naturel. Bordeaux : Brive xiv 208 pp. [121]. Type species *Sphex figulus* Linnaeus, 1758 by subsequent designation, see Latreille, P.A. (1802-1803). *Histoire Naturelle, Générale et Particulière des Crustacés et des Insectes*. Paris : F. Dufart Vol. 3 xii 13+467 pp. [339]. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [45].

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [339].

***Trypoxylon (Trypoxylon) albitarsatum* Tsuneki, 1977**

Taxonomic decision of Tsuneki, K. (1981). Studies on the genus *Trypoxylon* Latreille of the Oriental and Australian regions (Hymenoptera Sphecidae) VIII. Species from New Guinea and South Pacific Islands. IX. Species from Australia. *Spec. Publ. Japan Hymenopterists Ass.* 14 106 pp. [46].

***Trypoxylon (Trypoxylon) albitarsatum huonense* Tsuneki, 1977**

***Trypoxylon huonense*** Tsuneki, K. (1977). Some *Trypoxylon* species from the southwestern Pacific (Hymenoptera, Sphecidae, Larrinae). *Spec. Publ. Japan Hymenopterists Ass.* 6 20 pp. [14]. Type data: holotype, MNH \*M. adult, from Huon Gulf, New Guinea.

Distribution: NE coastal, Qld.; only published localities Cairns, Nerada and Kuranda, also on New Guinea and Misool Is. Ecology: larva - sedentary, predator : adult - volant; prey spiders.

***Trypoxylon (Trypoxylon) bituberculatum* Tsuneki, 1977**

***Trypoxylon bituberculatum*** Tsuneki, K. (1977). Some *Trypoxylon* species from the southwestern Pacific (Hymenoptera, Sphecidae, Larrinae). *Spec. Publ. Japan Hymenopterists Ass.* 6 20 pp. [17]. Type data: holotype, MNH \*F. adult, from Huon Gulf, New Guinea.

Distribution: NE coastal, Qld.; only published localities Cape York, Kuranda, Meringa and Cairns, also on New Guinea and Misool Is. Ecology: larva - sedentary, predator : adult - volant; prey spiders. Biological references: Tsuneki, K. (1981). Studies on the genus *Trypoxylon* Latreille of the Oriental and Australian regions (Hymenoptera Sphecidae) VIII. Species from New Guinea and South Pacific Islands. IX. Species from Australia. *Spec. Publ. Japan Hymenopterists Ass.* 14 106 pp. (redescription, Australian records).

***Trypoxylon (Trypoxylon) eximium* Smith, 1859**

***Trypoxylon eximium*** Smith, F. (1859). Catalogue of hymenopterous insects collected by Mr. A.R. Wallace at the islands of Aru and Key. *J. Linn. Soc. Lond. Zool.* 3: 132-178 [161]. Type data: lectotype, OUM \*F. adult, from Aru, designation by Tsuneki, K. (1978). Studies on the genus *Trypoxylon* Latreille of the Oriental and Australian regions (Hymenoptera, Sphecidae) II. Revision of the type series of the species described by F. Smith, P. Cameron, C.G. Nurse, W.H. Ashmead, R.E. Turner and O.W. Richards. *Spec. Publ. Japan Hymenopterists Ass.* 8 84 pp. [9].

Distribution: NE coastal, Qld.; only published localities Cape York, Gordonvale and Kuranda, also in New Guinea, Indonesia and Bismarck Archipelago. Ecology: larva - sedentary, predator : adult - volant; prey spiders. Biological references: Tsuneki, K. (1981). Studies on the genus *Trypoxylon* Latreille of the Oriental and Australian regions (Hymenoptera Sphecidae) VIII. Species from New Guinea and South Pacific Islands. IX. Species from Australia. *Spec. Publ. Japan Hymenopterists Ass.* 14 106 pp. (redescription, Australian records).

***Trypoxylon (Trypoxylon) flavipes* Tsuneki, 1979**

***Trypoxylon flavipes*** Tsuneki, K. (1979). Studies on the genus *Trypoxylon* Latreille of the Oriental and Australian regions (Hymenoptera, Sphecidae). III. Species from the Indian subcontinent including southeast Asia. *Spec. Publ. Japan Hymenopterists Ass.* 9 178 pp. [24]. Type data: holotype, BPBM \*F. adult, from Laos.

Distribution: NE coastal, Qld.; only published locality Mt. Tamborine, also in Ceylon, Laos, Borneo, Philippines, Sarawak and New Guinea. Ecology: larva - sedentary, predator : adult - volant; prey spiders. Biological references: Tsuneki, K. (1981). Studies on the genus *Trypoxylon* Latreille of the Oriental and Australian regions (Hymenoptera Sphecidae) VIII. Species from New Guinea and South Pacific Islands. IX. Species from Australia. *Spec. Publ. Japan Hymenopterists Ass.* 14 106 pp. (redescription, Australian record).

***Trypoxylon (Trypoxylon) mindanaonis* Tsuneki, 1976**

***Trypoxylon mindanaonis* Tsuneki, K. (1976).** Sphecoidea taken by the Noona Dan Expedition in the Philippine Islands (Insecta, Hymenoptera). *Steenstrupia* 4: 33-120 [84]. Type data: holotype, ZMUC \*F. adult, from Mindanao.

Distribution: NE coastal, Qld.; only published locality Brisbane, also in Philippines, Singapore, Borneo, Java and New Guinea. Ecology: larva - sedentary, predator : adult - volant; prey spiders. Biological references: Tsuneki, K. (1981). Studies on the genus *Trypoxylon* Latreille of the Oriental and Australian regions (Hymenoptera Sphecidae) VIII. Species from New Guinea and South Pacific Islands. IX. Species from Australia. *Spec. Publ. Japan Hymenopterists Ass.* 14 106 pp. (redescription, Australian record).

***Trypoxylon (Trypoxylon) papuanum* Tsuneki, 1977**

***Trypoxylon papuanum* Tsuneki, K. (1977).** Some *Trypoxylon* species from the southwestern Pacific (Hymenoptera, Sphecidae, Larinae). *Spec. Publ. Japan Hymenopterists Ass.* 6 20 pp. [2]. Type data: holotype, MNH \*F. adult, from New Guinea.

Distribution: NE coastal, N coastal, Qld., N.T.; also in Philippines, New Guinea, Bismarck Archipelago and Solomon Is. Ecology: larva - sedentary, predator : adult - volant; prey spiders. Biological references: Tsuneki, K. (1981). Studies on the genus *Trypoxylon* Latreille of the Oriental and Australian regions (Hymenoptera Sphecidae) VIII. Species from New Guinea and South Pacific Islands. IX. Species from Australia. *Spec. Publ. Japan Hymenopterists Ass.* 14 106 pp. (redescription, Australian records).

***Trypoxylon (Trypoxylon) schmiedeknechti* Kohl, 1906**

Taxonomic decision of Tsuneki, K. (1978). Studies on the genus *Trypoxylon* Latreille of the Oriental and Australian regions (Hymenoptera, Sphecidae) I. Group of *Trypoxylon scutatum* Chevrier with some species from Madagascar and the adjacent islands. *Spec. Publ. Japan Hymenopterists Ass.* 7 87 pp. [21].

***Trypoxylon (Trypoxylon) schmiedeknechti connexum* Turner, 1908**

***Trypoxylon connexum* Turner, R.E. (1908).** Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457-535 pl xxvi [522]. Type data: lectotype, BMNH \*F. adult, from Mackay, Qld., designation by Tsuneki, K. (1978). Studies on the genus *Trypoxylon* Latreille of the Oriental and Australian regions (Hymenoptera, Sphecidae) II. Revision of the type series of the species

described by F. Smith, P. Cameron, C.G. Nurse, W.H. Ashmead, R.E. Turner and O.W. Richards. *Spec. Publ. Japan Hymenopterists Ass.* 8 84 pp. [70].

Distribution: NE coastal, SE coastal, N coastal, N Gulf, Qld., N.S.W., Vic., W.A., N.T.; also in New Guinea, Bismarck Archipelago and Sumba Is. Ecology: larva - sedentary, predator : adult - volant; prey spiders. Biological references: Tsuneki, K. (1981). Studies on the genus *Trypoxylon* Latreille of the Oriental and Australian regions (Hymenoptera Sphecidae) VIII. Species from New Guinea and South Pacific Islands. IX. Species from Australia. *Spec. Publ. Japan Hymenopterists Ass.* 14 106 pp. (redescription).

***Rhopalum* Stephens, 1829**

Taxonomic decision of Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* 47: 352-362 [352].

***Rhopalum (Rhopalum)* Stephens, 1829**

***Rhopalum* Stephens, J.F. (1829).** *The Nomenclature of British Insects*; together with their synonyms : being a compendious list of such species as are contained in the systematic catalogue of British insects, and of those discovered subsequently to its publication; forming a guide to their classification, etc. London : Baldwin & Craddock 68 pp. [34]. Type species *Crabro rufiventris* Panzer, 1799 by subsequent designation, see Curtis, J. (1834-1837). *British Entomology*; being illustrations and descriptions of the genera of insects found in Great Britain and Ireland : containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found. London : John Curtis Vol. 11 pls 482-529. Compiled from secondary source: International Commission on Zoological Nomenclature (1978). Opinion 1106. Conservation of the generic name *Rhopalum* Stephens, 1829 (Insecta, Hymenoptera). *Bull. Zool. Nomen.* 34: 237-239 [237].

This group is found worldwide except for the Ethiopian Region, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [387].

***Rhopalum (Rhopalum) calixtum* Leclercq, 1957**

***Rhopalum (Rhopalum) calixtum* Leclercq, J. (1957).** Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* 93: 177-232 [231]. Type data: holotype, ANIC F. adult, from Brisbane, Qld.

Distribution: NE coastal, Murray-Darling basin, Qld., N.S.W., A.C.T.; only published localities Brisbane, N.S.W., Canberra and Black Mt. Ecology: larva - sedentary, predator : adult - volant.



***Rhopalum (Rhopalum) dineurum* Leclercq, 1957**

***Rhopalum (Rhopalum) dineurum*** Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* **93**: 177–232 [223]. Type data: holotype, BMNH \*M. adult, from Eaglehawk Neck, Tas.

Distribution: SE coastal, N.S.W., Vic., Tas.; only published localities Illawarra, Nunawading, Baxter, Sand Hills and Eaglehawk Neck. Ecology: larva - sedentary, predator : adult - volant.

***Rhopalum (Rhopalum) eucalypti* Turner, 1915**

***Rhopalum eucalypti*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist. (8)* **15**: 62–96 [90]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Eaglehawk Neck, Tas.

Distribution: Tas.; type locality only. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* **93**: 177–232 (redescription).

***Rhopalum (Rhopalum) grahami* Leclercq, 1957**

***Rhopalum (Rhopalum) grahami*** Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* **93**: 177–232 [227]. Type data: holotype, ANIC F. adult, from Black Mt., A.C.T.

Distribution: Murray-Darling basin, A.C.T., Vic.; only published localities Black Mt. and Sandhill Lake. Ecology: larva - sedentary, predator : adult - volant.

***Rhopalum (Rhopalum) macrocephalum* Turner, 1915**

***Rhopalum macrocephalum*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist. (8)* **15**: 62–96 [86]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Caloundra, Qld.

Distribution: NE coastal, Murray-Darling basin, SE coastal, Qld., N.S.W., Vic.; only published localities Caloundra, Stanthorpe, near Batemans Bay and Murrabit. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* **93**: 177–232 (redescription).

***Rhopalum (Rhopalum) tenuiventris* (Turner, 1908)**

***Crabro (Rhopalum) tenuiventris*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [524]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Murray-Darling basin, Qld., A.C.T.; only published localities Brisbane, Mackay and A.C.T. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* **93**: 177–232 (redescription).

***Rhopalum (Rhopalum) tepicum* Leclercq, 1957**

***Rhopalum (Rhopalum) tepicum*** Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* **93**: 177–232 [226]. Type data: holotype, BMNH \*M. adult, from Mt. Wellington, Tas.

Distribution: Tas.; type locality only. Ecology: larva - sedentary, predator : adult - volant.

***Rhopalum (Rhopalum) testaceum* Turner, 1917**

***Rhopalum testaceum*** Turner, R.E. (1917). Notes on fossorial Hymenoptera. XXV. On new Sphecoidea in the British Museum. *Ann. Mag. Nat. Hist. (8)* **19**: 104–113 [108]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* **93**: 177–232 (redescription).

***Rhopalum (Rhopalum) transiens* (Turner, 1908)**

***Crabro (Rhopalum) transiens*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [525]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Vic.

Distribution: Murray-Darling basin, N.S.W., Vic.; only published localities SE Bourke and Vic. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* **93**: 177–232 (redescription).

***Rhopalum (Rhopalum) tuberculicorne* Turner, 1917**

***Rhopalum tuberculicorne*** Turner, R.E. (1917). Notes on fossorial Hymenoptera. XXV. On new Sphecoidea in the British Museum. *Ann. Mag. Nat. Hist. (8)* **19**: 104–113 [107]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Caloundra, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* **93**: 177–232 (redescription).

***Rhopalum (Rhopalum) verutum* (Rayment, 1932)**

***Dasyproctus verutus*** Rayment, T. (1932). The flycatcher of the reeds. A new crabronid wasp. *Vict. Nat.* **48**:



171-174 [173] [subgeneric placement tentative]. Type data: holotype, ANIC 7576 M. adult, from Ferntree Gully, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, arboreal, predator : adult - volant; prey adult Diptera, nest in plant stems. Biological references: Leclercq, J. (1972). Crabroniens du genre *Dasyproctus* trouvés en Asie et en Océanie. *Bull. Soc. R. Sci. Liège* **41**: 101-122 (taxonomy); Naumann, I.D. (1983). The systematic position of *Dasyproctus verutus* Rayment (Hymenoptera: Sphecidae: Crabroninae). *J. Aust. Entomol. Soc.* **22**: 349-351 (generic placement).

***Rhopalum (Corynopus)* Lepeletier and Brullé, 1834**

***Corynopus*** Lepeletier de Saint-Fargeau, A. & Brullé, A. (1834). Monographie du genre *Crabro* F., de la famille des Hyménoptères fouisseurs. *Ann. Soc. Entomol. Fr.* **3**: 683-810 [802]. Type species *Crabro tibialis* Fabricius, 1798 by monotypy. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [47].

This group is also found in the Holarctic and Neotropical Regions, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [387].

***Rhopalum (Corynopus) anteum* Leclercq, 1957**

***Rhopalum (Rhopalum) anteum*** Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* **93**: 177-232 [215]. Type data: holotype, BMNH \*M. adult, from Port Phillip, Vic.

Distribution: SE coastal, Vic.; only published localities Port Phillip, Belcombe Heights, Cheltenham and Barwon Heads. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* **47**: 352-362 (generic placement).

***Rhopalum (Corynopus) australiae* Leclercq, 1957**

***Rhopalum (Rhopalum) australiae*** Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* **93**: 177-232 [210]. Type data: holotype, ANIC F. adult, from Blundells, A.C.T.

Distribution: Murray-Darling basin, A.C.T.; type locality only. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* **47**: 352-362 (generic placement).

***Rhopalum (Corynopus) coriolum* Leclercq, 1957**

***Rhopalum (Rhopalum) coriolum*** Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* **93**: 177-232 [210]. Type data: holotype, NMV \*F. adult, from Mt. Victoria, N.S.W.

Distribution: SE coastal, N.S.W.; type locality only. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* **47**: 352-362 (generic placement).

***Rhopalum (Corynopus) dedarum* Leclercq, 1957**

***Rhopalum (Rhopalum) dedarum*** Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* **93**: 177-232 [189]. Type data: holotype, BMNH \*M. adult, from Dedari, W.A.

Distribution: NE coastal, SE coastal, Murray-Darling basin, SW coastal, Qld., N.S.W., A.C.T., Vic., W.A. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera : Sphecidae). *Bull. Soc. R. Sci. Liège* **47**: 352-362 (taxonomy, distribution).

***Rhopalum (Corynopus) evansianum* Leclercq, 1978**

***Rhopalum (Corynopus) evansianum*** Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* **47**: 352-362 [357]. Type data: holotype, MCZ \*F. adult, from Packsaddle, N.S.W.

Distribution: Lake Eyre basin, N.S.W.; only published localities Packsaddle and Wilcannia. Ecology: larva - sedentary, predator : adult - volant.

***Rhopalum (Corynopus) evictum* Leclercq, 1978**

***Rhopalum (Corynopus) evictum*** Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* **47**: 352-362 [358]. Type data: holotype, MCZ \*M. adult, from Wyperfeld Natl. Park, Vic.

Distribution: Murray-Darling basin, N.S.W., Vic.; only published localities Wentworth and Wyperfeld Natl. Park. Ecology: larva - sedentary, predator : adult - volant.

***Rhopalum (Corynopus) famicum* Leclercq, 1978**

***Rhopalum (Corynopus) famicum*** Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* **47**: 352-362 [359]. Type data: holotype, MCZ \*F. adult, from 10 mi N Mt. Magnet, W.A.

Distribution: W plateau, W.A.; only published localities Mt. Magnet and Wiluna. Ecology: larva - sedentary, predator : adult - volant.

***Rhopalum (Corynopus) frenchii*** (Turner, 1908)

***Crabro (Rhopalum) frenchii*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphecidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457-535 pl xxvi [526]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Vic.

Distribution: SE coastal, Murray-Darling basin, SW coastal, N.S.W., A.C.T., Vic., Tas., W.A. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* 93: 177-232 (redescription); Tsuneki, K. (1977). On the crabronine wasps of the southern Pacific and Australia (Hymenoptera, Sphecidae). *Spec. Publ. Japan Hymenopterists Ass.* 3 27 pp. (description of variety); Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* 47: 352-362 (redescription, generic placement).

***Rhopalum (Corynopus) harpax*** Leclercq, 1957

***Rhopalum (Rhopalum) harpax*** Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* 93: 177-232 [202]. Type data: holotype, NMV 532 \*M. adult, from Melbourne, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* 47: 352-362 (generic placement).

***Rhopalum (Corynopus) kerangi*** Leclercq, 1957

***Rhopalum (Rhopalum) kerangi*** Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* 93: 177-232 [213]. Type data: holotype, NMV \*F. adult, from Kerang, Vic.

Distribution: Murray-Darling basin, Vic.; type locality only. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* 47: 352-362 (generic placement).

***Rhopalum (Corynopus) kuehlhorni*** Leclercq, 1957

***Rhopalum (Rhopalum) kuehlhorni*** Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* 93: 177-232 [203]. Type data: holotype, ZSM \*F. adult, from S.A.

Distribution: Murray-Darling basin, A.C.T.; only published localities Canberra and Black Mt. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* 47: 352-362 (generic placement).

***Rhopalum (Corynopus) littorale*** Turner, 1915

***Rhopalum littorale*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) 15: 62-96 [91]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: Murray-Darling basin, SE coastal, SW coastal, N.S.W., A.C.T., Vic., Tas., W.A. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* 93: 177-232 (redescription); Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* 47: 352-362 (generic placement).

***Rhopalum (Corynopus) nevoissi*** Leclercq, 1957

***Rhopalum (Rhopalum) nevoissi*** Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* 93: 177-232 [214]. Type data: holotype, NMV \*F. adult, from Nunawading, Vic.

Distribution: SE coastal, Murray-Darling basin, A.C.T., Vic.; only published localities Canberra, Corin Dam and Nunawading. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* 47: 352-362 (generic placement).

***Rhopalum (Corynopus) notogeum*** Leclercq, 1957

***Rhopalum (Rhopalum) notogeum*** Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* 93: 177-232 [216]. Type data: holotype, BMNH \*M. adult, from Dongarra, W.A.

Distribution: SW coastal, NW coastal, W.A.; only published localities Dongarra, Perth and Maya. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* 47: 352-362 (generic placement).

***Rhopalum (Corynopus) taeniatum*** Leclercq, 1957

***Rhopalum (Rhopalum) taeniatum*** Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* 93: 177-232 [225]. Type data: holotype, BMNH \*M. adult, from Kuranda, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* **47**: 352-362 (generic placement).

***Rhopalum (Corynopus) tubarum* Leclercq, 1957**

***Rhopalum (Rhopalum) tubarum* Leclercq, J. (1957).** Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* **93**: 177-232 [218]. Type data: holotype, ANIC M. adult, from Brisbane, Qld.

Distribution: NE coastal, Qld.; only published localities Brisbane, Tamborine and "Nummbah" (not found on map). Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* **47**: 352-362 (generic placement).

***Rhopalum (Corynopus) variitarse* Turner, 1915**

***Rhopalum variitarse* Turner, R.E. (1915).** Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist. (8)* **15**: 62-96 [89]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mt. Wellington and Eaglehawk Neck," Tas.

Distribution: Murray-Darling basin, SE coastal, N.S.W., A.C.T. Vic., Tas. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Leclercq, J. (1957). Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* **93**: 177-232 (redescription); Evans, H.E. & Matthews, R.W. (1971). Notes on the prey and nests of some Australian Crabronini (Hymenoptera : Sphecidae). *J. Aust. Entomol. Soc.* **10**: 1-4 (nest, prey); Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* **47**: 352-362 (generic placement).

***Rhopalum (Corynopus) xenum* Leclercq, 1957**

***Rhopalum (Rhopalum) xenum* Leclercq, J. (1957).** Le genre *Rhopalum* en Australie. *Bull. Ann. Soc. R. Entomol. Belg.* **93**: 177-232 [217]. Type data: holotype, BMNH \*M. adult, from Dongarra, W.A.

Distribution: SE coastal, SW coastal, NW coastal, N.S.W., W.A.; only published localities Sydney, Dongarra, Yallingup, Carnac Is. and near Mandurah. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* **47**: 352-362 (generic placement).

***Rhopalum (Notorhopalum) Leclercq, 1978***

***Notorhopalum* Leclercq, J. (1978).** Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* **47**: 352-362 [354] [described with subgeneric rank in *Rhopalum* Stephens, 1829]. Type species *Rhopalum (Notorhopalum) carnegiacum* Leclercq, 1978 by monotypy and original designation.

***Rhopalum (Notorhopalum) carnegiacum* Leclercq, 1978**

***Rhopalum (Notorhopalum) carnegiacum* Leclercq, J. (1978).** Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* **47**: 352-362 [356]. Type data: holotype, NMV \*F. adult, from Carnegie, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, predator : adult - volant.

***Podagritys* Spinola, 1851**

Taxonomic decision of Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [47].

***Podagritys (Echuca) Pate, 1944***

***Echuca* Pate, V.S.L. (1944).** Conspectus of the genera of pemphilidine wasps (Hymenoptera : Sphecidae). *Am. Midl. Nat.* **31**: 329-384 [353] [described with subgeneric rank in *Podagritys* Spinola, 1851]. Type species *Crabro tricolor* Smith, 1856 by original designation.

***Podagritys (Echuca) alevinus* Leclercq, 1957**

***Podagritys (Echuca) alevinus* Leclercq, J. (1957).** Recherches systématiques et taxonomiques sur le genre *Podagritys*. I. Sur onze espèces australiennes et une espèce des îles Fidji. *Bull. Inst. R. Sci. Nat. Belg.* **33**(15): 1-7 [3]. Type data: holotype, NMV T7970 \*F. adult, from Frankston, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Podagritys (Echuca) aliciae* (Turner, 1915)**

***Rhopalum aliciae* Turner, R.E. (1915).** Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist. (8)* **15**: 62-96 [90]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Leclercq, J. (1950). Notes systématiques sur les Crabroniens pédonculés (Hymenoptera Sphecidae). *Bull. Inst. R. Sci. Nat. Belg.* **26**(15): 1-19 (generic placement); Leclercq, J. (1955). Révision des *Podagritys* (Spinola, 1851)



australiens (Hym. Sphecidae, Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **91**: 305–330 (redescription).

*Podagritys (Echuca) anerus* Leclercq, 1955

*Podagritys (Echuca) anerus* Leclercq, J. (1955). Révision des *Podagritys* (Spinola, 1851) australiens (Hym. Sphecidae, Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **91**: 305–330 [323]. Type data: holotype, NMV 271 \*M. adult, from Seaford, Vic. (as Scaford).

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

*Podagritys (Echuca) australiensis* Tsuneki, 1977

*Podagritys (Echuca) australiensis* Tsuneki, K. (1977). On the crabronine wasps of the southern Pacific and Australia (Hymenoptera, Sphecidae). *Spec. Publ. Japan Hymenopterists Ass.* **3** 27 pp. [5]. Type data: syntypes (probable), MNH \* adult, from Mt. Victoria, N.S.W.

Distribution: SE coastal, N.S.W.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

*Podagritys (Echuca) burnsi* Leclercq, 1955

*Podagritys (Echuca) burnsi* Leclercq, J. (1955). Révision des *Podagritys* (Spinola, 1851) australiens (Hym. Sphecidae, Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **91**: 305–330 [317]. Type data: holotype, NMV 268 \*F. adult, from Melbourne, Vic.

Distribution: SE coastal, Murray-Darling basin, Vic.; only published localities Melbourne and Kiata. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

*Podagritys (Echuca) carolus* Leclercq, 1955

*Podagritys (Echuca) carolus* Leclercq, J. (1955). Révision des *Podagritys* (Spinola, 1851) australiens (Hym. Sphecidae, Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **91**: 305–330 [319]. Type data: holotype, BMNH \*F. adult, from Killalpanima, 100 mi E of Lake Eyre, S.A.

Distribution: Lake Eyre basin, S.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

*Podagritys (Echuca) cornigerum* (Tsuneki, 1977)

*Rhopalum (Rhopalum) cornigerum* Tsuneki, K. (1977). On the crabronine wasps of the southern Pacific and Australia (Hymenoptera, Sphecidae). *Spec. Publ. Japan Hymenopterists Ass.* **3** 27 pp. [3]. Type data: syntypes (probable), MNH \*M. adult, from Sydney, N.S.W.

Distribution: SE coastal, Murray-Darling basin, N.S.W., A.C.T.; only published localities Sydney, Woolahra, Georges River and near Canberra. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Leclercq, J. (1978). Crabroniens du

genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* **47**: 352–362 (generic placement).

*Podagritys (Echuca) cygnorum* (Turner, 1915)

*Rhopalum cygnorum* Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62–96 [88]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kings Park, Perth, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Leclercq, J. (1950). Notes systématiques sur les Crabroniens pédonculés (Hymenoptera Sphecidae). *Bull. Inst. R. Sci. Nat. Belg.* **26**(15): 1–19 (generic placement).

*Podagritys (Echuca) doreeni* Leclercq, 1955

*Podagritys (Echuca) doreeni* Leclercq, J. (1955). Révision des *Podagritys* (Spinola, 1851) australiens (Hym. Sphecidae, Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **91**: 305–330 [313]. Type data: holotype, NMV \*F. adult, from Trentham, Vic.

Distribution: Murray-Darling basin, SE coastal, A.C.T., Vic.; only published localities Blundells and Trentham. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

*Podagritys (Echuca) edgarus* Leclercq, 1957

*Podagritys (Echuca) edgarus* Leclercq, J. (1957). Recherches systématiques et taxonomiques sur le genre *Podagritys*. I. Sur onze espèces australiennes et une espèce des îles Fidji. *Bull. Inst. R. Sci. Nat. Belg.* **33**(15): 1–7 [5]. Type data: holotype, ANIC M. adult, from 35 mi NW of Nyngan, N.S.W.

Distribution: Murray-Darling basin, N.S.W.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

*Podagritys (Echuca) imbelle* (Turner, 1915)

*Rhopalum tricolor imbelle* Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62–96 [92]. Type data: holotype, BMNH \*F. adult, from SW Australia.

Distribution: SW coastal, W.A.; only published localities Yallingup, Bunbury and near Nannup. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Leclercq, J. (1950). Notes systématiques sur les Crabroniens pédonculés (Hymenoptera Sphecidae). *Bull. Inst. R. Sci. Nat. Belg.* **26**(15): 1–19 (generic placement).

***Podagritys (Echuca) kiatae* Leclercq, 1955**

***Podagritys (Echuca) kiatae*** Leclercq, J. (1955). Révision des *Podagritys* (Spinola, 1851) australiens (Hym. Sphecidae, Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **91**: 305–330 [329]. Type data: holotype, NMV 270 \*F. adult, from Kiata, Vic.

Distribution: Murray-Darling basin, S Gulfs, SW coastal, Vic., Tas., S.A., W.A.; only published localities Kiata, Westerway, Iron Knob and Nannup. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Podagritys (Echuca) krombeini* Leclercq, 1955**

***Podagritys (Echuca) krombeini*** Leclercq, J. (1955). Révision des *Podagritys* (Spinola, 1851) australiens (Hym. Sphecidae, Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **91**: 305–330 [320]. Type data: holotype, USNM \*M. adult, from Sydney, N.S.W.

Distribution: SE coastal, N.S.W.; only published localities Sydney and Mt. Victoria. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Podagritys (Echuca) leptospermi* (Turner, 1915)**

***Rhopalum leptospermi*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62–96 [87]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Yallingup, Warren River, W.A.

Distribution: NE coastal, Murray-Darling basin, SE coastal, SW coastal, Qld., N.S.W., A.C.T., Vic., Tas., W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera Therevidae. Biological references: Leclercq, J. (1950). Notes systématiques sur les Crabroniens pédonculés (Hymenoptera Sphecidae). *Bull. Inst. R. Sci. Nat. Belg.* **26**(15): 1–19 (generic placement); Evans, H.E. & Matthews, R.W. (1971). Notes on the prey and nests of some Australian Crabronini (Hymenoptera : Sphecidae). *J. Aust. Entomol. Soc.* **10**: 1–4 (nest, prey).

***Podagritys (Echuca) marcellus* Leclercq, 1955**

***Podagritys (Echuca) marcellus*** Leclercq, J. (1955). Révision des *Podagritys* (Spinola, 1851) australiens (Hym. Sphecidae, Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **91**: 305–330 [323]. Type data: syntypes (probable), BMNH \*adult, from Dongarra, W.A.

Distribution: SW coastal, NW coastal, W.A.; only published localities Dongarra and Yallingup. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Podagritys (Echuca) mullewanus* Leclercq, 1970**

***Podagritys (Echuca) mullewanus*** Leclercq, J. (1970). Quelques *Podagritys* d'Australie et d'Amérique du Sud (Hymenoptera Sphecidae, Crabroninae). *Bull. Rech.*

*Agron. Gembloux (ns)* **5**: 271–280 [273]. Type data: holotype, ANIC F. adult, from 10 mi W of Mullewa, W.A.

Distribution: S Gulfs, NW coastal, S.A., W.A.; only published localities near Kimba and near Mullewa. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Podagritys (Echuca) peratus* Leclercq, 1955**

***Podagritys (Echuca) peratus*** Leclercq, J. (1955). Révision des *Podagritys* (Spinola, 1851) australiens (Hym. Sphecidae, Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **91**: 305–330 [326]. Type data: syntypes (probable), BMNH \*M. adult, from Yallingup, W.A.

Distribution: SW coastal, W plateau, W.A.; only published localities Yallingup, Southern Cross and Coolgardie. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Leclercq, J. (1970). Quelques *Podagritys* d'Australie et d'Amérique du Sud (Hymenoptera Sphecidae, Crabroninae). *Bull. Rech. Agron. Gembloux (ns)* **5**: 271–280 (redescription).

***Podagritys (Echuca) rieki* Leclercq, 1957**

***Podagritys (Echuca) rieki*** Leclercq, J. (1957). Recherches systématiques et taxonomiques sur le genre *Podagritys*. I. Sur onze espèces australiennes et une espèce des îles Fidji. *Bull. Inst. R. Sci. Nat. Belg.* **33**(15): 1–7 [1]. Type data: holotype, ANIC F. adult, from Blundells, A.C.T.

Distribution: Murray-Darling basin, SE coastal, A.C.T., N.S.W., Vic.; only published localities Blundells, Kosciusko, Nicholson River and Kangaroo Ground. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Podagritys (Echuca) tricolor* (Smith, 1856)**

***Crabro tricolor*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [394]. Type data: neotype, BMNH \*M. adult, subsequent designation by Leclercq, J. (1955). Révision des *Podagritys* (Spinola, 1851) australiens (Hym. Sphecidae, Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **91**: 305–330, from Eaglehawk Neck, Tas.

***Crabro (Rhopalum) militaris*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [523]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Vic.

Taxonomic decision of Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62–96 [92].

Distribution: SE coastal, Murray-Darling basin, SW coastal, N.S.W., A.C.T., Vic., Tas., W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Pate, V.S.L. (1944). Conspectus of the genera of pemphilidine wasps (Hymenoptera : Sphecidae). *Am. Midl. Nat.* **31**: 329-384 (generic placement); Leclercq, J. (1955). Révision des *Podagritys* (Spinola, 1851) australiens (Hym. Sphecidae, Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **91**: 305-330 (redescription).

***Podagritys (Echuca) yarrowi* Leclercq, 1955**

***Podagritys (Echuca) yarrowi* Leclercq, J. (1955).** Révision des *Podagritys* (Spinola, 1851) australiens (Hym. Sphecidae, Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **91**: 305-330 [328]. Type data: syntypes (probable), BMNH \*adult, from Dongarra, W.A.

Distribution: SW coastal, NW coastal, W.A.; only published localities Dongarra and Yallingup. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Notocrabro* Leclercq, 1951**

***Notocrabro* Leclercq, J. (1951).** Notes systématiques sur quelques Crabroniens (Hymenoptera Sphecidae) américains, orientaux et australiens. *Bull. Ann. Soc. R. Entomol. Belg.* **87**: 31-56 [52]. Type species *Crabro (Rhopalum) idoneus* Turner, 1908 by monotypy and original designation.

***Spinocrabro* Leclercq, J. (1954).** *Monographie Systématique, Phylogénétique et Zoogéographique des Hyménoptères Crabroniens*. Liège : Lejeunia Press 371 pp. [209] [unnecessary *nom. nov.* for *Notocrabro* Leclercq, 1951].

Taxonomic decision of Leclercq, J. (1978). Crabroniens du genre *Rhopalum* Stephens trouvés en Australie (Hymenoptera Sphecidae). *Bull. Soc. R. Sci. Liège* **47**: 352-362 [47].

***Notocrabro idoneus* (Turner, 1908)**

***Crabro (Rhopalum) idoneus* Turner, R.E. (1908).** Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457-535 pl xxvi [527]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

***Rhopalum spinulifer* Turner, R.E. (1918).** Notes on fossorial Hymenoptera. XXXII. On new species in the British Museum. *Ann. Mag. Nat. Hist. (9)* **1**: 86-96 [93]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Taxonomic decision of Leclercq, J. (1954). *Monographie Systématique, Phylogénétique et Zoogéographique des Hyménoptères Crabroniens*. Liège : Lejeunia Press 371 pp. [209].

Distribution: NE coastal, Qld.; only published localities Mackay, Kuranda, Herberton and Cape York. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1974). Crabroniens d'Australie (Hymenoptera Sphecidae Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **110**: 37-57 (generic placement).

***Notocrabro micheneri* Leclercq, 1974**

***Notocrabro micheneri* Leclercq, J. (1974).** Crabroniens d'Australie (Hymenoptera Sphecidae Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **110**: 37-57 [41]. Type data: holotype, ANIC M. adult, from Binna Burra, Lamington Natl. Park, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant.

***Pseudoturneria* Leclercq, 1954**

***Turneriola* Leclercq, J. (1951).** Notes systématiques sur quelques Crabroniens (Hymenoptera Sphecidae) américains, orientaux et australiens. *Bull. Ann. Soc. R. Entomol. Belg.* **87**: 31-56 [54] [non *Turneriola* China, 1933]. Type species *Crabro perlucidus* Turner, 1908 by monotypy and original designation.

***Pseudoturneria* Leclercq, J. (1954).** *Monographie Systématique, Phylogénétique et Zoogéographique des Hyménoptères Crabroniens*. Liège : Lejeunia Press 371 pp. [208] [*nom. nov.* for *Turneriola* Leclercq, 1951].

***Pseudoturneria couloni* Leclercq, 1974**

***Pseudoturneria couloni* Leclercq, J. (1974).** Crabroniens d'Australie (Hymenoptera Sphecidae Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **110**: 37-57 [42]. Type data: holotype, ZMB \*F. adult, from Port Philip, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, predator : adult - volant.

***Pseudoturneria perlucida* (Turner, 1908)**

***Crabro perlucidus* Turner, R.E. (1908).** Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457-535 pl xxvi [529 pl xxvi fig 15]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1951). Notes systématiques sur quelques Crabroniens (Hymenoptera Sphecidae) américains, orientaux et australiens. *Bull. Ann. Soc. R. Entomol. Belg.* **87**: 31-56 (taxonomy).

***Pseudoturneria territorialis* Leclercq, 1974**

***Pseudoturneria territorialis* Leclercq, J. (1974).** Crabroniens d'Australie (Hymenoptera Sphecidae



Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **110**: 37–57 [44]. Type data: holotype, ANIC M. adult, from Blundells, A.C.T.

Distribution: Murray-Darling basin, SE coastal, N.S.W., A.C.T., Vic.; only published localities Brown Mt., Blundells, Corin Dam and Blackburn.

#### *Piyuma* Pate, 1944

*Piyuma* Pate, V.S.L. (1944). Conspectus of the genera of pemphilidine wasps (Hymenoptera : Sphecidae). *Am. Midl. Nat.* **31**: 329–384 [356]. Type species *Piyuma koxinga* Pate, 1944 (= *Crabro prosopoides* Turner, 1908) by original designation.

This group is also found in the Oriental Region, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [409].

#### *Piyuma prosopoides* (Turner, 1908)

*Crabro prosopoides* Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [528]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay, Townsville, Kuranda and Brisbane, also Borneo, Taiwan and Philippines. Ecology: larva - sedentary, arboreal, predator : adult - volant; prey mainly small adult Diptera, nest in pre-existing hole in wood. Biological references: Pate, V.S.L. (1944). Conspectus of the genera of pemphilidine wasps (Hymenoptera : Sphecidae). *Am. Midl. Nat.* **31**: 329–384; Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (biology, list of synonyms).

#### *Chimiloides* Leclercq, 1951

*Chimiloides* Leclercq, J. (1951). Notes systématiques sur quelques Crabroniens (Hymenoptera Sphecidae) américains, orientaux et australiens. *Bull. Ann. Soc. R. Entomol. Belg.* **87**: 31–56 [50]. Type species *Crabro nigromaculatus* Smith, 1868 by original designation.

#### *Chimiloides doddii* (Turner, 1908)

*Crabro doddii* Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [529]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Townsville, Qld.

*Crabro erythrogaster* Turner, R.E. (1910). New fossorial Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* **1910**: 407–429 pl 50 [429]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Bundaberg, Qld.

Taxonomic decision of Leclercq, J. (1954). *Monographie Systématique, Phylogénétique et Zoogéographique des Hyménoptères Crabroniens*. Liège : Lejeunia Press 371 pp. [212].

Distribution: NE coastal, Murray-Darling basin, SE coastal, Qld., Vic.; only published localities Townsville, near Collinsville, Stanthorpe and Hamilton. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1951). Notes systématiques sur quelques Crabroniens (Hymenoptera Sphecidae) américains, orientaux et australiens. *Bull. Ann. Soc. R. Entomol. Belg.* **87**: 31–56 (generic placement).

#### *Chimiloides nigromaculatus* (Smith, 1868)

*Crabro nigromaculatus* Smith, F. (1868). Descriptions of aculeate Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* **1868**: 231–258 [249]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Moreton Bay, Qld.

Distribution: NE coastal, SW coastal, NW coastal, Qld., W.A.; only published localities Moreton Bay, Merredin, Carnarvon. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1951). Notes systématiques sur quelques Crabroniens (Hymenoptera Sphecidae) américains, orientaux et australiens. *Bull. Ann. Soc. R. Entomol. Belg.* **87**: 31–56 (generic placement).

#### *Chimiloides piliferus* Leclercq, 1954

*Chimiloides piliferus* Leclercq, J. (1954). *Monographie Systématique, Phylogénétique et Zoogéographique des Hyménoptères Crabroniens*. Liège : Lejeunia Press 371 pp. [212]. Type data: holotype, BMNH \*M. adult, from Townsville, Qld.

Distribution: NE coastal, Murray-Darling basin, S Gulfs, SW coastal, NW coastal, N coastal, Qld., Vic., S.A., W.A., N.T. Ecology: larva - sedentary, predator, adult - volant.

#### *Neodasyproctus* Arnold, 1926

*Neodasyproctus* Arnold, G. (1926). The Sphegidae of South Africa. Part VII. *Ann. Transvaal Mus.* **11**: 338–376 [373] [described with subgeneric rank in *Thyreopus* Lepeletier and Brullé, 1834]. Type species *Thyreopus (Neodasyproctus) kohli* Brauns, 1926 in Arnold, *loc. cit.* (1926) by monotypy.

This group is also found in the Ethiopian Region and Fiji, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [418].

#### *Neodasyproctus veitchi* (Turner, 1917)

*Crabro veitchi* Turner, R.E. (1917). New species of Hymenoptera in the British Museum. *Trans. Entomol. Soc. Lond.* **1917**: 53–84 [84]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Fiji.

Distribution: Fiji, no Australian locality specified. Ecology: larva - sedentary, predator : adult - volant. Biological references: Leclercq, J. (1950). Notes systématiques sur les Crabroniens pédonculés (Hymenoptera Sphecidae). *Bull. Inst. R. Sci. Nat. Belg.* **26**(15): 1-19 (generic placement); Leclercq, J. (1951). Sur quelques *Neodasyproctus* (Arnold, 1926) nouveaux ou peu connus (Hymenoptera, Sphecidae, Crabroninae). *Rev. Zool. Bot. Afr.* **44**: 333-337 (redescription).

***Dasyproctus* Lepeletier and Brullé, 1834**

***Dasyproctus* Lepeletier de Saint-Fargeau, A. & Brullé, A. (1834).** Monographie du genre *Crabro* F., de la famille des Hyménoptères fouisseurs. *Ann. Soc. Entomol. Fr.* **3**: 683-810 [801]. Type species *Dasyproctus bipunctatus* Lepeletier and Brullé, 1834 by monotypy. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp.

This group is also found in the Ethiopian and Oriental Regions, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [419].

***Dasyproctus austragilis* Leclercq, 1972**

***Dasyproctus austragilis* Leclercq, J. (1972).** Crabroniens du genre *Dasyproctus* trouvés en Asie et en Océanie. *Bull. Soc. R. Sci. Liège* **41**: 101-122 [113]. Type data: holotype, BMNH \*adult, from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay, Westwood and Meringa. Ecology: larva - sedentary, arboreal, predator : adult - volant; prey adult Diptera, nest in plant stems.

***Dasyproctus burnettianus* Turner, 1912**

***Dasyproctus burnettianus* Turner, R.E. (1912).** Notes on fossorial Hymenoptera. IX. On some new species from the Australian and Austro-Malayan regions. *Ann. Mag. Nat. Hist. (8)* **10**: 48-63 [62]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Bundaberg, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, arboreal, predator : adult - volant; prey adult Diptera, nest in plant stems. Biological references: Leclercq, J. (1956). Les *Dasyproctus* (Lepeletier de St-Fargeau et Brullé 1834) du sud-est asiatique et de l'Océanie (Hym. Sphecidae Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **92**: 139-167 (redescription).

***Dasyproctus conator* (Turner, 1908)**

***Crabro* (*Rhopalum*) *conator* Turner, R.E. (1908).** Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.*

**1908:** 457-535 pl xxvi [526]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Cooktown, Qld.

Distribution: NE coastal, Qld.; only published localities Cooktown and Kuranda. Ecology: larva - sedentary, arboreal, predator : adult - volant; prey adult Diptera, nest in plant stems. Biological references: Turner, R.E. (1912). Notes on fossorial Hymenoptera. IX. On some new species from the Australian and Austro-Malayan regions. *Ann. Mag. Nat. Hist. (8)* **10**: 48-63 (generic placement); Leclercq, J. (1972). Crabroniens du genre *Dasyproctus* trouvés en Asie et en Océanie. *Bull. Soc. R. Sci. Liège* **41**: 101-122 (taxonomy).

***Dasyproctus expectatus* Turner, 1912**

***Dasyproctus expectatus* Turner, R.E. (1912).** Notes on fossorial Hymenoptera. IX. On some new species from the Australian and Austro-Malayan regions. *Ann. Mag. Nat. Hist. (8)* **10**: 48-63 [60]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Sydney, N.S.W.

Distribution: NE coastal, SE coastal, Qld., N.S.W., Vic.; only published localities Fitzroy Is., Sydney and Mooroopna. Ecology: larva - sedentary, arboreal, predator : adult - volant; prey adult Diptera, nest in plant stems. Biological references: Leclercq, J. (1972). Crabroniens du genre *Dasyproctus* trouvés en Asie et en Océanie. *Bull. Soc. R. Sci. Liège* **41**: 101-122 (taxonomy).

***Dasyproctus yorki* Leclercq, 1956**

***Dasyproctus yorki* Leclercq, J. (1956).** Les *Dasyproctus* (Lepeletier de St-Fargeau et Brullé 1834) du sud-est asiatique et de l'Océanie (Hym. Sphecidae Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **92**: 139-167 [157]. Type data: holotype, NHMW \*F. adult, from Cape York, Qld.

Distribution: NE coastal, N coastal, Qld., W.A.; only published localities Cape York, Fitzroy Is., Dunk Is. and Wyndham. Ecology: larva - sedentary, arboreal, predator : adult - volant; prey adult Diptera, nest in plant stems. Biological references: Leclercq, J. (1972). Crabroniens du genre *Dasyproctus* trouvés en Asie et en Océanie. *Bull. Soc. R. Sci. Liège* **41**: 101-122 (distribution).

***Williamsita* Pate, 1947**

Taxonomic decision of Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [49].

***Williamsita* (*Androcrabro*) Leclercq, 1950**

***Androcrabro* Leclercq, J. (1950).** Sur les Crabroniens orientaux et australiens rangés par R.E. Turner (1912-1915) dans le genre *Crabro* (subgenus *Solenius*). *Bull. Ann. Soc. Entomol. Belg.* **86**: 191-198 [192]

[described with subgeneric rank in *Williamsita* Pate, 1947]. Type species *Crabro neglectus* Smith, 1868 by original designation.

This group is also found in New Caledonia, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [421].

***Williamsita (Androcrabro) bivittata*** (Turner, 1908)

***Crabro bivittatus*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [534]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Vic.

Distribution: NE coastal, SE coastal, Murray-Darling basin, S Gulfs, Qld., N.S.W., A.C.T., Vic., Tas., S.A. Ecology: larva - sedentary, predator : adult - volant; nest in log, prey adult Diptera (Calliphoridae). Biological references: Leclercq, J. (1950). Sur les Crabroniens orientaux et australiens rangés par R.E. Turner (1912–1915) dans le genre *Crabro* (subgenus *Solenius*). *Bull. Ann. Soc. Entomol. Belg.* **86**: 191–198 (generic placement); Evans, H.E. & Matthews, R.W. (1971). Notes on the prey and nests of some Australian Crabronini (Hymenoptera : Sphecidae). *J. Aust. Entomol. Soc.* **10**: 1–4 (nest, prep).

***Williamsita (Androcrabro) bushiella*** Leclercq, 1974

***Williamsita bushiella*** Leclercq, J. (1974). Crabroniens d'Australie (Hymenoptera Sphecidae Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **110**: 37–57 [52]. Type data: holotype, MCZ \*F. adult, from 10.2 mi W of Nundroo, S.A.

Distribution: W plateau, S.A.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey adult Diptera.

***Williamsita (Androcrabro) manifestata*** (Turner, 1915)

***Crabro (Solenius) manifestatus*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62–96 [95]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kalamunda, W.A.

Distribution: SW coastal, W.A.; only published localities Kalamunda, Waroona, Perth and Bunbury. Ecology: larva - sedentary, predator : adult - volant; prey adult Diptera. Biological references: Leclercq, J. (1950). Sur les Crabroniens orientaux et australiens rangés par R.E. Turner (1912–1915) dans le genre *Crabro* (subgenus *Solenius*). *Bull. Ann. Soc. Entomol. Belg.* **86**: 191–198 (generic placement).

***Williamsita (Androcrabro) neglecta*** (Smith, 1868)

***Crabro neglectus*** Smith, F. (1868). Descriptions of aculeate Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* **1868**: 231–258 [249]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from S.A.

Distribution: Tas., (S.A.); only published localities Scottsdale and S. Aust. Ecology: larva - sedentary, predator : adult - volant; prey adult Diptera. Biological references: Leclercq, J. (1950). Sur les Crabroniens orientaux et australiens rangés par R.E. Turner (1912–1915) dans le genre *Crabro* (subgenus *Solenius*). *Bull. Ann. Soc. Entomol. Belg.* **86**: 191–198 (generic placement).

***Williamsita (Androcrabro) ordinaria*** (Turner, 1908)

***Crabro ordinarius*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [532]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, N coastal, Qld., N.S.W., N.T. Ecology: larva - sedentary, predator : adult - volant; prey adult Diptera. Biological references: Leclercq, J. (1950). Sur les Crabroniens orientaux et australiens rangés par R.E. Turner (1912–1915) dans le genre *Crabro* (subgenus *Solenius*). *Bull. Ann. Soc. Entomol. Belg.* **86**: 191–198 (generic placement).

***Williamsita (Androcrabro) riekiella*** Leclercq, 1974

***Williamsita riekiella*** Leclercq, J. (1974). Crabroniens d'Australie (Hymenoptera Sphecidae Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **110**: 37–57 [53]. Type data: holotype, ANIC F. adult, from National Park, N.S.W. (probably Royal National Park S of Sydney).

Distribution: SE coastal, N.S.W.; type locality only. Ecology: larva - sedentary, predator : adult - volant; prey adult Diptera.

***Williamsita (Androcrabro) smithiensis*** Leclercq, 1954

***Crabro tridentatus*** Smith, F. (1868). Descriptions of aculeate Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* **1868**: 231–258 [250] [*non Crabro tridentatus* Fabricius, 1775]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Moreton Bay, Qld.

***Williamsita (Androcrabro) smithiensis*** Leclercq, J. (1954). *Monographie Systématique, Phylogénétique et Zoogéographique des Hyménoptères Crabroniens*. Liège : Lejeunia Press 371pp. [263] [*nom. nov.* for *Crabro tridentatus* Smith, 1868].



Distribution: NE coastal, SE coastal, Murray-Darling basin, Qld., N.S.W., A.C.T., Vic. Ecology: larva - sedentary, predator : adult - volent; prey adult Diptera.

***Williamsita (Androcrabro) tasmanica*** (Smith, 1856)

***Crabro tasmanicus*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207-497 London : British Museum [425]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Tas.

Distribution: Tas. Ecology: larva - sedentary, predator : adult - volent; prey adult Diptera. Biological references: Leclercq, J. (1950). Sur les Crabroniens orientaux et australiens rangés par R.E. Turner (1912-1915) dans le genre *Crabro* (subgenus *Solenius*). *Bull. Ann. Soc. Entomol. Belg.* **86**: 191-198 (generic placement).

***Williamsita (Androcrabro) vedetta*** Leclercq, 1974

***Williamsita vedetta*** Leclercq, J. (1974). Crabroniens d'Australie (Hymenoptera Sphecidae Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **110**: 37-57 [55]. Type data: holotype, NMV 4476 \*F. adult, from Bunbury, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey adult Diptera.

#### ***Ectemnius* Dahlbom, 1845**

Taxonomic decision of Leclercq, J. (1954). *Monographie Systématique, Phylogénétique et Zoogéographique des Hyménoptères Crabroniens*. Liège : Lejeunia Press 371 pp. [264].

#### ***Ectemnius (Hypocrabro)* Ashmead, 1899**

***Hypocrabro*** Ashmead, W.H. (1899). Classification of the entomophilous wasps, or the superfamily Sphegoidea. *Can. Entomol.* **31**: 145-155, 161-174, 212-225, 238-251, 291-300, 322-330, 345-357 [168]. Type species *Crabro decemmaculatus* Say, 1823 by original designation.

This group is also found in the Holarctic, Neotropical and Oriental Regions, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [422].

***Ectemnius (Hypocrabro) hebetescens*** (Turner, 1908)

***Crabro hebetescens*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457-535 pl xxvi [530]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey adult Diptera. Biological references: Leclercq, J. (1950). Sur les Crabroniens orientaux et australiens rangés par R.E. Turner (1912-1915) dans le genre *Crabro* (subgenus *Solenius*). *Bull. Ann. Soc. Entomol. Belg.* **86**: 191-198 (generic placement).

***Ectemnius (Hypocrabro) mackayensis*** (Turner, 1908)

***Crabro mackayensis*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457-535 pl xxvi [532]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, predator : adult - volent; prey adult Diptera. Biological references: Leclercq, J. (1950). Sur les Crabroniens orientaux et australiens rangés par R.E. Turner (1912-1915) dans le genre *Crabro* (subgenus *Solenius*). *Bull. Ann. Soc. Entomol. Belg.* **86**: 191-198 (generic placement).

***Ectemnius (Hypocrabro) reginellus*** Leclercq, 1954

***Crabro cinctus*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457-535 [531 pl xxvi fig 14] [*non Crabro cinctus* Rossi, 1791]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

***Ectemnius (Hypocrabro) reginellus*** Leclercq, J. (1954). *Monographie Systématique, Phylogénétique et Zoogéographique des Hyménoptères Crabroniens*. Liège : Lejeunia Press 371 pp. [268] [*nom. nov.* for *Crabro cinctus* Turner, 1908].

Distribution: NE coastal, Qld.; only published localities Mackay, Westwood, Brisbane, Ayr and Collinsville. Ecology: larva - sedentary, predator : adult - volent; prey adult Diptera.

#### ***Ectemnius (Cameronitus)* Leclercq, 1950**

***Cameronitus*** Leclercq, J. (1950). Notes systématiques sur les Crabroniens pédonculés (Hymenoptera Sphecidae). *Bull. Inst. R. Sci. Nat. Belg.* **26**(15): 1-19 [14] [described with subgeneric rank in *Ectemnius* Dahlbom, 1845]. Type species *Crabro menyillus* Cameron, 1905 by original designation.

This group is also found in the Palearctic and Oriental Regions, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [422].

***Ectemnius (Cameronitus) conglobatus*** (Turner, 1908)

***Crabro conglobatus*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [533]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay and Kuranda. Ecology: larva - sedentary, predator : adult - volant; prey adult Diptera. Biological references: Leclercq, J. (1954). *Monographie Systématique, Phylogénétique et Zoogéographique des Hyménoptères Crabroniens*. Liège : Lejeunia Press 371 pp. (generic placement).

***Lestica*** Billberg, 1820

Taxonomic decision of Leclercq, J. (1954). *Monographie Systématique, Phylogénétique et Zoogéographique des Hyménoptères Crabroniens*. Liège : Lejeunia Press 371 pp. [291].

***Lestica (Solenius)*** Lepeletier and Brullé, 1834

***Solenius*** Lepeletier de Saint-Fargeau, A. & Brullé, A. (1834). Monographie du genre *Crabro* F., de la famille des Hyménoptères fouisseurs. *Ann. Soc. Entomol. Fr.* **3**: 683–810 [713]. Type species *Solenius interruptus* Lepeletier and Brullé, 1834 by subsequent designation, see International Commission on Zoological Nomenclature (1974). Opinion 1015. *Solenius* Lepeletier & Brullé, 1834 (Insecta, Hymenoptera) : designation of a type-species under the plenary powers. *Bull. Zool. Nomen.* **31**: 16–18. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp.

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [428].

***Lestica (Solenius) relictia*** Leclercq, 1951

***Lestica (Solenius) relictia*** Leclercq, J. (1951). Sur trois espèces de *Lestica (Solenius)* (Hym., Sphecidae, Crabroninae). *Bull. Ann. Soc. R. Entomol. Belg.* **87**: 169–173 [169]. Type data: holotype, GMNH \*F. adult, from Australia.

Distribution: no Australian locality specified. Ecology: larva - sedentary, predator : adult - volant; prey adult Lepidoptera.

***Acanthostethus*** Smith, 1869

***Acanthostethus*** Smith, F. (1869). Descriptions of new genera and species of exotic Hymenoptera. *Trans. Entomol. Soc. Lond.* **1869**: 301–311 [306]. Type species *Acanthostethus basalis* Smith, 1869 by monotypy.

***Acanthostethus brisbanensis*** (Turner, 1915)

***Nysson (Acanthostethus) brisbanensis*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New

Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62–96 [81]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Brisbane, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant; cleptoparasite.

***Acanthostethus confertus*** (Turner, 1915)

***Nysson (Acanthostethus) confertus*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62–96 [82]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant; cleptoparasite.

***Acanthostethus gilberti*** (Turner, 1915)

***Nysson (Acanthostethus) gilberti*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62–96 [84]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant; cleptoparasite.

***Acanthostethus hentyi*** (Rayment, 1953)

***Nysson hentyi*** Rayment, T. (1953). New bees and wasps. Part XXI. Parasites on sericophorine wasps. *Vict. Nat.* **70**: 123–127 [124 figs on 126]. Type data: holotype, ANIC M. adult, from Cape Nelson Road (Portland), Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant ; cleptoparasite. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Acanthostethus minimus*** (Turner, 1915)

***Nysson (Acanthostethus) minimus*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62–96 [83]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, Qld.; only published localities Kuranda and Cairns. Ecology: larva - sedentary, soil, predator : adult - volant; cleptoparasite.

***Acanthostethus moerens*** (Turner, 1915)

***Nysson (Acanthostethus) moerens*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62–96 [83]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volent; cleptoparasite.

***Acanthostethus mysticus* (Gerstäcker, 1867)**

*Nysson mysticus* Gerstäcker, A. (1867). Die Arten der Gattung *Nysson* Latr. *Abh. Naturf. Ges. Halle* **10**: 71–122 [112]. Type data: syntypes (probable), ZMB \*M. adult, from Swan River, W.A.

*Acanthostethus basalis* Smith, F. (1869). Descriptions of new genera and species of exotic Hymenoptera. *Trans. Entomol. Soc. Lond.* **1869**: 301–311 [307 pl 6 fig 3]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia.

Taxonomic decision of Handlirsch, A. (1887). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. *Sber. Akad. Wiss. Wien, Math.-Nat. Kl.* **95**: 246–421 [328].

Distribution: SW coastal, N coastal, W.A., S.A.; only published localities Swan River, Ord River and S.A. Ecology: larva - sedentary, soil, predator : adult - volent; cleptoparasite. Biological references: Handlirsch, A. (1895). Nachträge und Schlusswort zur Monographie des mit *Nysson* und *Bembex* verwandten Grabwespen. *Sber. Akad. Wiss. Wien* **104**: 801–1079 pls 1–2 (generic placement).

***Acanthostethus nudiventris* (Turner, 1915)**

*Nysson (Acanthostethus) nudiventris* Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist. (8)* **15**: 62–96 [81]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volent; cleptoparasite.

***Acanthostethus obliteratus* (Turner, 1910)**

*Nysson (Acanthostethus) obliteratus* Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253–356 [350]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from South Perth, W.A.

Distribution: SW coastal, W.A.; only published localities South Perth and Perth. Ecology: larva - sedentary, soil, predator : adult - volent; cleptoparasite.

***Acanthostethus portlandensis* (Rayment, 1953)**

*Nysson portlandensis* Rayment, T. (1953). New bees and wasps. Part XXI. Parasites on sericophorine wasps. *Vict. Nat.* **70**: 123–127 [124 figs on 126]. Type data: holotype, ANIC F. adult, from Cape Nelson Road (Portland), Vic.

Distribution: SE coastal, Murray-Darling basin, Vic., A.C.T., S.A.; only published localities Portland, Black Mt. and Mt. Gambier. Ecology: larva - sedentary, soil, predator : adult - volent ;

cleptoparasite. Biological references: Matthews, R.W. & Evans, H.E. (1971). Biological notes on two species of *Sericophorus* from Australia (Hymenoptera : Sphecidae). *Psyche Camb.* **77**: 413–429 (host, generic placement).

***Acanthostethus punctatissimus* (Turner, 1908)**

*Nysson (Acanthostethus) punctatissimus* Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphecidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 [505 pl xxvi fig 9]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volent; cleptoparasite.

***Acanthostethus saussurei* (Handlirsch, 1887)**

*Nysson saussurei* Handlirsch, A. (1887). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. *Sber. Akad. Wiss. Wien, Math.-Nat. Kl.* **95**: 246–421 [332 pl 4 fig 14]. Type data: syntypes (probable), GMNH \*M., F. adult, from S.A.

Distribution: S.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volent; cleptoparasite. Biological references: Handlirsch, A. (1895). Nachträge und Schlusswort zur Monographie des mit *Nysson* und *Bembex* verwandten Grabwespen. *Sber. Akad. Wiss. Wien* **104**: 801–1079 pls 1–2 (generic placement).

***Acanthostethus spiniger* (Turner, 1908)**

*Nysson (Acanthostethus) spiniger* Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphecidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [507]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volent; cleptoparasite.

***Acanthostethus tasmanicus* (Turner, 1915)**

*Nysson (Acanthostethus) tasmanicus* Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist. (8)* **15**: 62–96 [80]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Eaglehawk Neck and Mt Wellington, Tas.

Distribution: Murray-Darling basin, A.C.T., Tas.; only published localities Corin Dam, Eaglehawk Neck and Mt. Wellington. Ecology: larva - sedentary, soil, predator : adult - volent; cleptoparasite. Biological references: Evans, H.E. & Matthews, R.W. (1971). Nesting behaviour and larval stages of some Australian nyssonine sand wasps (Hymenoptera : Sphecidae). *Aust. J. Zool.* **19**: 293–310 (?host).



***Acanthostethus triangularis* (Turner, 1940)**

**Nysson (*Acanthostethus*) *triangularis*** Turner, R.E. (1940). Notes on Fossorial Hymenoptera. XLIX. On new Australian species. *Ann. Mag. Nat. Hist.* (11) 5: 96–105 [104]. Type data: holotype, BMNH \*F. adult, from Mingenew, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volent; cleptoparasite.

***Clitemnestra* Spinola, 1851**

***Clitemnestra*** Spinola, M. (1851). Himenópteros. pp. 153–569 in Gay, C. *Historia Física y Política de Chile*. Zoología. Paris : Maulde & Revon Vol. 6 572 pp. [341]. Type species *Arpactus (Clitemnestra) gayi* Spinola, 1851 by monotypy and original designation.

***Miscothyris*** Smith, F. (1869). Descriptions of new genera and species of exotic Hymenoptera. *Trans. Entomol. Soc. Lond.* 1869: 301–311 [307]. Type species *Miscothyris thoracicus* Smith, 1869 by monotypy.

***Astaurus*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* 19: 11–105 pls 1–11 [60]. Type species *Astaurus hylaeoides* Rayment, 1955 by original designation.

Taxonomic decision of Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [51].

This group is also found in Chile, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [485].

***Clitemnestra duboulayi* (Turner, 1908)**

***Gorytes duboulayi*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457–535 pl xxvi [496]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from NW coast of Australia (probably Nicol Bay).

Distribution: Murray-Darling basin, NW coastal, W.A., Vic.; only published localities Champion Bay and Rutherglen. Ecology: larva - sedentary, soil, predator : adult - volent; prey Hemiptera. Biological references: Turner, R.E. (1912). Notes on fossorial Hymenoptera. IX. On some new species from the Australian and Austro-Malayan regions. *Ann. Mag. Nat. Hist.* (8) 10: 48–63 (generic placement).

***Clitemnestra guttatus* (Turner, 1936)**

***Arpactus (Miscothyris) guttatus*** Turner, R.E. (1936). Notes on fossorial Hymenoptera. XLV. On new sphegid wasps from Australia. *Ann. Mag. Nat. Hist.* (10) 18: 533–545 [541]. Type data: holotype, ?BMNH \*F. adult, from 10 mi S Perth, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volent; prey Hemiptera. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Clitemnestra lucidulus* (Turner, 1908)**

***Gorytes lucidulus*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457–535 pl xxvi [498 pl xxvi fig 11]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay, Cairns. Ecology: larva - sedentary, soil, predator : adult - volent; prey Hemiptera. Biological references: Turner, R.E. (1912). Notes on fossorial Hymenoptera. IX. On some new species from the Australian and Austro-Malayan regions. *Ann. Mag. Nat. Hist.* (8) 10: 48–63 (generic placement).

***Clitemnestra megalophthalmus* (Handlirsch, 1895)**

***Gorytes (Miscothyris) megalophthalmus*** Handlirsch, A. (1895). Nachträge und Schlusswort zur Monographie des mit *Nysson* und *Bembex* verwandten Grabwespen. *Sber. Akad. Wiss. Wien* 104: 801–1079 pls 1–2 [862 pl 1 figs 1–11]. Type data: holotype, ZMB \*M. adult, from Australia.

Distribution: no Australian locality specified. Ecology: larva - sedentary, soil, predator : adult - volent; prey Hemiptera. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Clitemnestra mimetica* (Cockerell, 1915)**

***Miscothyris lucidulus mimeticus*** Cockerell, T.D.A. (1915). A wasp resembling a bee (Hym.). *Entomol. News* 26: 268 [268]. Type data: syntypes (probable), Cockerell collection \*adult, from Gilgai, N.S.W.

Distribution: Murray-Darling basin, N.S.W.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volent; prey Hemiptera. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Clitemnestra perlucidus* (Turner, 1916)**

***Miscothyris perlucidus*** Turner, R.E. (1916). Notes on fossorial Hymenoptera. XXIII. *Ann. Mag. Nat. Hist.* (8) 18: 277–288 [278]. Type data: holotype, BMNH \*adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volent; prey Hemiptera. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Clitemnestra plomleyi* (Turner, 1940)**

***Arpactus (Miscothyris) plomleyi*** Turner, R.E. (1940). Notes on Fossorial Hymenoptera. XLIX. On new Australian species. *Ann. Mag. Nat. Hist. (11)* 5: 96-105 [105]. Type data: syntypes (probable), BMNH \*adult, from Barrington Tops, N.S.W.

***Astaurus hylaeoides*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* 19: 11-105 pls 1-11 [61 pl 7]. Type data: holotype, NMV \*M. adult, paratype ANIC M. adult, from Gorae West, Vic.

Taxonomic decision of Evans, H.E. & Matthews, R.W. (1971). Nesting behaviour and larval stages of some Australian nyssonine sand wasps (Hymenoptera : Sphecidae). *Aust. J. Zool.* 19: 293-310 [299].

Distribution: Murray-Darling basin, SE coastal, N.S.W., A.C.T., Vic.; only published localities Barrington Tops, Corin Dam, Mt. Franklin and Gorae West. Ecology: larva - sedentary, soil, predator : adult - volent; prey Homoptera (Cicadellidae), nest in pre-existing hole.

***Clitemnestra sanguinolentus* (Turner, 1908)**

***Gorytes sanguinolentus*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* 1908: 457-535 [497 pl xxvi fig 10]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volent; prey Hemiptera. Biological references: Turner, R.E. (1912). Notes on fossorial Hymenoptera. IX. On some new species from the Australian and Austro-Malayan regions. *Ann. Mag. Nat. Hist. (8)* 10: 48-63 (generic placement).

***Clitemnestra tenuicornis* (Rayment, 1955)**

***Astaurus tenuicornis*** Rayment, T. (1955). Taxonomy, morphology and biology of sericophorine wasps. With diagnoses of two new genera and descriptions of forty new species and six subspecies. *Mem. Natl. Mus. Vict.* 19: 11-105 pls 1-11 [62]. Type data: holotype, NMV M. adult, from Cheltenham, N.S.W.

Distribution: SE coastal, N.S.W.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volent; prey Hemiptera.

***Clitemnestra thoracicus* (Smith, 1869)**

***Miscothyris thoracicus*** Smith, F. (1869). Descriptions of new genera and species of exotic Hymenoptera. *Trans. Entomol. Soc. Lond.* 1869: 301-311 [308 pl 6 fig 5]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Champion Bay, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volent; prey Hemiptera. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Argogorytes* Ashmead, 1899**

***Argogorytes*** Ashmead, W.H. (1899). Classification of the entomophilous wasps, or the superfamily Sphegoidea. *Can. Entomol.* 31: 322-330 [324]. Type species *Gorytes carbonarius* Smith, 1856 by monotypy.

This group is found in all continental faunal regions except the Ethiopian, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [491]. Species now known not to occur in Australia: *Argogorytes stenopygus* (Handlirsch, 1895) erroneously recorded from Australia, see Bohart & Menke (*op. cit.*).

***Argogorytes crucigera* (Hacker and Cockerell, 1922)**

***Arpactus crucigera*** Hacker, H. & Cockerell, T.D.A. (1922). Some Australian wasps of the genera *Zoyphium* and *Arpactus*. *Mem. Qd. Mus.* 7: 283-290 [289]. Type data: holotype, QM HY2698 \*F. adult, from Brisbane, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volent, burrowing; prey Hemiptera. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Argogorytes rubrosignatus* (Turner, 1915)**

***Arpactus rubrosignatus*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist. (8)* 15: 62-96 [77]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from between Yallingup and Busselton, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volent, burrowing; prey Hemiptera. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Argogorytes rufomixtus* (Turner, 1914)**

***Gorytes rufomixtus*** Turner, R.E. (1914). New fossorial Hymenoptera from Australia and Tasmania. *Proc. Linn. Soc. N.S.W.* **38**: 608–623 [620]. Type data: syntypes (probable), AM \*F. adult, from Jindabyne, N.S.W.

Distribution: NE coastal, SE coastal, Qld., N.S.W.; only published localities Brisbane and Jindabyne. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Hemiptera. Biological references: Hacker, H. & Cockerell, T.D.A. (1922). Some Australian wasps of the genera *Zoyphium* and *Arpactus*. *Mem. Qd. Mus.* **7**: 283–290 (description of male); Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Argogorytes secernendus* (Turner, 1915)**

***Arpactus secernendus*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist. (8)* **15**: 62–96 [78]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from SE Australia.

Distribution: ; type locality only as SE Australia. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Hemiptera. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Austrogorytes* Bohart, 1967**

***Austrogorytes*** Bohart, R.M. (1967). New genera of Gorytini (Hymenoptera : Sphecidae : Nyssoninae). *Pan-Pac. Entomol.* **43**: 155–161 [155]. Type species *Gorytes bellicosus* Smith, 1862 by original designation.

***Austrogorytes aurantiacus* (Turner, 1915)**

***Arpactus aurantiacus*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist. (8)* **15**: 62–96 [71]. Type data: holotype, SAMA \*M. adult, from Ankertell, W.A.

Distribution: W plateau, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Hemiptera. Biological references: Bohart, R.M. (1967). New genera of Gorytini (Hymenoptera : Sphecidae : Nyssoninae). *Pan-Pac. Entomol.* **43**: 155–161 (generic placement).

***Austrogorytes bellicosus* (Smith, 1862)**

***Gorytes bellicosus*** Smith, F. (1862). Descriptions of new species of Australian Hymenoptera, and of a species of *Formica* from New Zealand. *Trans. Entomol. Soc. Lond.* (3) **1**: 53–62 [55]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

***Gorytes dizonus*** Handlirsch, A. (1895). Nachträge und Schlusswort zur Monographie des mit *Nysson* und

*Bembex* verwandten Grabwespen. *Sber. Akad. Wiss. Wien* **104**: 801–1079 pls 1–2 [873]. Type data: syntypes (probable), SMNS \*M. adult, from Vic.

Taxonomic decision of Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist. (8)* **15**: 62–96 [70].

Distribution: Murray-Darling basin, S Gulfs, A.C.T., Vic., S.A.; only published localities Corin Dam, S of Canberra, Vic. and Adelaide. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Hemiptera (Eurymelidae). Biological references: Bohart, R.M. (1967). New genera of Gorytini (Hymenoptera : Sphecidae : Nyssoninae). *Pan-Pac. Entomol.* **43**: 155–161 (generic placement); Evans, H.E. & Matthews, R.W. (1971). Nesting behaviour and larval stages of some Australian nyssonine sand wasps (Hymenoptera : Sphecidae). *Aust. J. Zool.* **19**: 293–310 (nest, prey, larva).

***Austrogorytes browni* (Turner, 1936)**

***Arpactus browni*** Turner, R.E. (1936). Notes on fossorial Hymenoptera. XLV. On new sphegid wasps from Australia. *Ann. Mag. Nat. Hist. (10)* **18**: 533–545 [540]. Type data: syntypes (probable), BMNH \*M. adult, from Dedari, W.A.

Distribution: W plateau, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Hemiptera. Biological references: Bohart, R.M. (1967). New genera of Gorytini (Hymenoptera : Sphecidae : Nyssoninae). *Pan-Pac. Entomol.* **43**: 155–161 (generic placement).

***Austrogorytes chrysozonus* (Turner, 1915)**

***Arpactus chrysozonus*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist. (8)* **15**: 62–96 [72]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Brisbane, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Hemiptera. Biological references: Bohart, R.M. (1967). New genera of Gorytini (Hymenoptera : Sphecidae : Nyssoninae). *Pan-Pac. Entomol.* **43**: 155–161 (generic placement).

***Austrogorytes ciliatus* (Handlirsch, 1895)**

***Gorytes ciliatus*** Handlirsch, A. (1895). Nachträge und Schlusswort zur Monographie des mit *Nysson* und *Bembex* verwandten Grabwespen. *Sber. Akad. Wiss. Wien* **104**: 801–1079 pls 1–2 [874]. Type data: holotype, ZMB \*M. adult, from Adelaide, S.A.

Distribution: S Gulfs, NW coastal, S.A., W.A.; only published localities Adelaide and Champion Bay. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Hemiptera.



Biological references: Bohart, R.M. (1967). New genera of Gorytini (Hymenoptera : Sphecidae : Nyssoninae). *Pan-Pac. Entomol.* **43**: 155-161 (generic placement).

***Austrogorytes consuetipes*** (Turner, 1915)

***Arpactus consuetipes*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62-96 [77]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from N.S.W.

Distribution: N.S.W.; type locality only as N.S.W. Ecology: larva - sedentary, soil, predator : adult - volat, burrowing; prey Hemiptera. Biological references: Bohart, R.M. (1967). New genera of Gorytini (Hymenoptera : Sphecidae : Nyssoninae). *Pan-Pac. Entomol.* **43**: 155-161 (generic placement).

***Austrogorytes cygnorum*** (Turner, 1908)

***Gorytes cygnorum*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphecidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457-535 pl xxvi [500]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volat, burrowing; prey Hemiptera. Biological references: Bohart, R.M. (1967). New genera of Gorytini (Hymenoptera : Sphecidae : Nyssoninae). *Pan-Pac. Entomol.* **43**: 155-161 (generic placement).

***Austrogorytes frenchii*** (Turner, 1908)

***Gorytes frenchii*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphecidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457-535 pl xxvi [501]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Vic.

Distribution: SE coastal, N.S.W., Vic.; only published localities Sydney and Vic. Ecology: larva - sedentary, soil, predator : adult - volat, burrowing; prey Hemiptera. Biological references: Bohart, R.M. (1967). New genera of Gorytini (Hymenoptera : Sphecidae : Nyssoninae). *Pan-Pac. Entomol.* **43**: 155-161 (generic placement).

***Austrogorytes obesus*** (Turner, 1915)

***Arpactus obesus*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62-96 [74]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Yallungup, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volat, burrowing; prey Hemiptera. Biological references: Bohart, R.M. (1967). New genera of

Gorytini (Hymenoptera : Sphecidae : Nyssoninae). *Pan-Pac. Entomol.* **43**: 155-161 (generic placement).

***Austrogorytes perkinsi*** (Turner, 1912)

***Gorytes perkinsi*** Turner, R.E. (1912). Notes on fossorial Hymenoptera. IX. On some new species from the Australian and Austro-Malayan regions. *Ann. Mag. Nat. Hist.* (8) **10**: 48-63 [57]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volat, burrowing; prey Hemiptera. Biological references: Bohart, R.M. (1967). New genera of Gorytini (Hymenoptera : Sphecidae : Nyssoninae). *Pan-Pac. Entomol.* **43**: 155-161 (generic placement).

***Austrogorytes pretiosus*** (Turner, 1915)

***Arpactus pretiosus*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62-96 [75]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Yallungup, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volat, burrowing; prey Hemiptera. Biological references: Bohart, R.M. (1967). New genera of Gorytini (Hymenoptera : Sphecidae : Nyssoninae). *Pan-Pac. Entomol.* **43**: 155-161 (generic placement).

***Austrogorytes spinicornis*** (Turner, 1915)

***Arpactus spinicornis*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62-96 [76]. Type data: holotype, SAMA \*M. adult, from Beverley, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volat, burrowing; prey Hemiptera. Biological references: Bohart, R.M. (1967). New genera of Gorytini (Hymenoptera : Sphecidae : Nyssoninae). *Pan-Pac. Entomol.* **43**: 155-161 (generic placement).

***Austrogorytes spryi*** (Turner, 1915)

***Arpactus spryi*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist.* (8) **15**: 62-96 [73]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Mordialloc, Vic.

Distribution: SE coastal, Vic.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volat, burrowing; prey Hemiptera. Biological references: Bohart, R.M. (1967). New genera of Gorytini (Hymenoptera : Sphecidae : Nyssoninae). *Pan-Pac. Entomol.* **43**: 155-161 (generic placement).

***Austrogorytes tarsatus* (Smith, 1856)**

***Gorytes tarsatus*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [366]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

***Gorytes eximius*** Smith, F. (1862). Descriptions of new species of Australian Hymenoptera, and of a species of *Formica* from New Zealand. *Trans. Entomol. Soc. Lond.* (3) 1: 53–62 [55]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

Taxonomic decision of Handlirsch, A. (1889). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. iii. *Sber. Akad. Wiss. Wien, Math.-Nat. Kl.* 97: 316–565 [543].

Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Hemiptera. Biological references: Bohart, R.M. (1967). New genera of Gorytini (Hymenoptera : Sphecidae : Nyssoninae). *Pan-Pac. Entomol.* 43: 155–161 (generic placement).

***Exeirus* Shuckard, 1838**

***Exeirus*** Shuckard, W.E. (1838). Descriptions of new exotic aculeate Hymenoptera. *Trans. Entomol. Soc. Lond.* 2: 68–82 [71]. Type species *Exeirus lateritius* Shuckard, 1838 by monotypy.

***Exeirus lateritius* Shuckard, 1838**

***Exeirus lateritius*** Shuckard, W.E. (1838). Descriptions of new exotic aculeate Hymenoptera. *Trans. Entomol. Soc. Lond.* 2: 68–82 [72 pl 8 fig 2]. Type data: syntypes (probable), whereabouts unknown, from Sydney, N.S.W. and Tas.

***Sphecius lanio*** Stal, C. (1857). Nya arter af Sphegidae. *Ofvers. K. Vetensk Akad. Forh.* 14: 63–64 [64]. Type data: syntypes (probable), NHRM \*adult, from Australia (as New Holland).

Taxonomic decision of Handlirsch, A. (1888). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. ii. *Sber. Akad. Wiss. Wien, Math.-Nat. Kl.* 96: 219–311 [306].

Distribution: Murray-Darling basin, SE coastal, N.S.W., Tas. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Homoptera (Cicadidae). Biological references: McCulloch, A.R. (1923). War in the garden. *Aust. Mus. Mag.* 1: 209–212 (behaviour); Alcock, J. (1980). Notes on the reproductive behaviour of some Australian solitary wasps (Hymenoptera : Sphecidae, *Tachysphex* and *Exeirus*). *J. Aust. Entomol. Soc.* 19: 259–262 (mating behaviour).

***Sphecius* Dahlbom, 1843**

Taxonomic decision of Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [52].

***Sphecius* (*Nothosphecius*) Pate, 1936**

***Nothosphecius*** Pate, V.S.L. (1936). Studies in the nyssonine wasps. II. The subgenera of *Sphecius* (Hymenoptera : Sphecidae : Gorytini). *Bull. Brooklyn Entomol. Soc.* 31: 198–200 [199] [described with subgeneric rank in *Sphecius* Dahlbom, 1845]. Type species *Sphecius grandidieri* Saussure, 1887 by original designation.

This group is also found in the Ethiopian and Oriental Regions, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [509].

***Sphecius* (*Nothosphecius*) *pectoralis* (Smith, 1856)**

***Stizus pectoralis*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [337]. Type data: syntypes, BMNH \*F.M. adult (seen 1929 by L.F. Graham), from Australia.

Distribution: NE coastal, Qld.; only published localities Rockhampton and Yeppoon. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Homoptera (Cicadidae). Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement); Evans, H.E. & Matthews, R.W. (1971). Nesting behaviour and larval stages of some Australian nyssonine sand wasps (Hymenoptera : Sphecidae). *Aust. J. Zool.* 19: 293–310 (nest, larva, prey).

***Ammatomus* Costa, 1859**

***Ammatomus*** Costa, A. (1859). Immenotteri aculeati, famiglia degli Sfecidei. Nyssonidea. pp. 1–56 in Costa, O.G. & A. (1829–1886). *Fauna del Regno di Napoli*. Napoli 11 vols. [36]. Type species *Gorytes coarctatus* Spinola, 1808 by monotypy. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [53].

This group is also found in the Palearctic, Ethiopian and Oriental Regions, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [512].

***Ammatomus austrinus*** (Bingham, 1912)

***Gorytes austrinus*** Bingham, C.T. (1912). South African and Australian Aculeate Hymenoptera in the Oxford Museum. *Trans. Entomol. Soc. Lond.* **1912**: 375–383 [376]. Type data: syntypes (probable), OUM \*F. adult, from Hunters River, N.S.W. (as New Holland) or Tas. (as Van Dieman's Land).

Distribution: (SE coastal), (N.S.W.), (Tas.); type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Ammatomus decoratus*** (Handlirsch, 1889)

***Gorytes ornatus*** Smith, F. (1868). Descriptions of aculeate Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* **1868**: 231–258 [248] [*non Gorytes ornatus* Smith, 1856]. Type data: syntypes (probable), ?BMNH \*F. adult.

***Gorytes decoratus*** Handlirsch, A. (1889). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. iii. *Sber. Akad. Wiss. Wien, Math.-Nat. Kl.* **97**: 316–565 [542] [*nom. nov.* for *Gorytes ornatus* Smith, 1868]. from Champion Bay, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Turner, R.E. (1912). Notes on fossorial Hymenoptera. x. On new species from the oriental and ethiopian regions. *Ann. Mag. Nat. Hist. (8)* **10**: 361–377 (generic placement).

***Ammatomus icarioides*** (Turner, 1908)

***Gorytes icarioides*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [499]. Type data: syntypes (probable), whereabouts unknown, from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay, Townsville and near Brisbane. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Hemiptera (Flatidae and Eurybrachidae). Biological references: Turner, R.E. (1912). Notes on fossorial Hymenoptera. x. On new species from the oriental and ethiopian regions. *Ann. Mag. Nat. Hist. (8)* **10**: 361–377 (generic placement); Hook, A. (1981). Nesting biology of *Tanyoprymnus moneduloides* and *Ammatomus icarioides*. *Ann. Entomol. Soc. Am.* **74**: 409–411; Evans, H.E. (1983). The larva of *Ammatomus icarioides* (Turner) (Hymenoptera, Sphecidae, Nyssoninae). *Pan-Pac. Entomol.* **59**: 52–54.

***Bembecinus*** Costa, 1859

***Bembecinus*** Costa, A. (1859). Immenotteri aculeati, famiglia degli Sfecidei. *Nyssonidea* pp. 1–56 in Costa, O.G. & A. (1829–1886). *Fauna dell Regno di Napoli*. Napoli 11 vols. [4]. Type species *Bembecinus meridionalis* Costa, 1859 by monotypy.

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [529]. Species now known not to occur in Australia: *Bembecinus monodon* (Handlirsch, 1895) described in *Stizus*, erroneously recorded from Australia (misreading of type locality "Afr. austral." as "Africa, Australia").

***Bembecinus antipodum*** (Handlirsch, 1892)

***Stizus antipodum*** Handlirsch, A. (1892). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. vi. *Sber. Akad. Wiss. Wien, Math.-Nat. Kl.* **101**: 25–205 [52]. Type data: syntypes (probable), ZMH (evidently destroyed in war) F. adult, from Sydney, N.S.W.

Distribution: SE coastal, N.S.W.; only published localities Sydney and Kuringai Chase. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Homoptera. Biological references: Evans, H.E. & Matthews, R.W. (1971). Nesting behaviour and larval stages of some Australian nyssonine sand wasps (Hymenoptera : Sphecidae). *Aust. J. Zool.* **19**: 293–310 (nest, prey, generic placement).

***Bembecinus egens*** (Handlirsch, 1892)

***Stizus egens*** Handlirsch, A. (1892). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. vi. *Sber. Akad. Wiss. Wien, Math.-Nat. Kl.* **101**: 25–205 [51]. Type data: holotype, GMHN \*F. adult, from Port Denison, Qld.

Distribution: NE coastal, Qld.; only published localities Cairns, Yeppoon, near Mackay and Port Denison. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Homoptera. Biological references: Evans, H.E. & Matthews, R.W. (1971). Nesting behaviour and larval stages of some Australian nyssonine sand wasps (Hymenoptera : Sphecidae). *Aust. J. Zool.* **19**: 293–310 (nest, prey, generic placement).

***Bembecinus gorytoides*** (Handlirsch, 1895)

***Stizus gorytoides*** Handlirsch, A. (1895). Nachträge und Schlusswort zur Monographie des mit *Nysson* und *Bembex* verwandten Grabwespen. *Sber. Akad. Wiss. Wien* **104**: 801–1079 pls 1–2 [1895 pl 2 figs 5–6]. Type data: syntypes (probable), GMNH \*F. adult, from Pacific Ocean.

Distribution: this species is found in Fiji, the record from Australia may be an error. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Homoptera. Biological references:



Lohrmann, E. (1943). Die Grabwespengruppe der Stizinen. *Mitt. Münch. Entomol. Ges.* **33**: 188–208 (generic placement).

***Bembecinus hirtula*** (Smith, 1856)

***Larra hirtula*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [344]. Type data: holotype, BMNH \*M. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

Distribution: Murray-Darling basin, S Gulfs, N.S.W., A.C.T., S.A.; (N Australia) only published localities Peak Hill, Wilcannia, Murrumbidgee River, Adelaide. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Homoptera. Biological references: Lohrmann, E. (1943). Die Grabwespengruppe der Stizinen. *Mitt. Münch. Entomol. Ges.* **33**: 188–208 (generic placement); Evans, H.E. & Matthews, R.W. (1971). Nesting behaviour and larval stages of some Australian nyssonine sand wasps (Hymenoptera : Sphecidae). *Aust. J. Zool.* **19**: 293–310 (nest, prey, behaviour).

***Bembecinus signatus*** (Handlirsch, 1892)

***Stizus signatus*** Handlirsch, A. (1892). Monographie der mit Nysson und *Bembex* verwandten Grabwespen. vi. *Sber. Akad. Wiss. Wien, Math.-Nat. Kl.* **101**: 25–205 [53]. Type data: syntypes (probable), ZMH (evidently destroyed in war) M. adult, from Sydney, N.S.W.

Distribution: SE coastal, N.S.W.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Homoptera. Biological references: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. (generic placement).

***Bembecinus turneri*** (Froggatt, 1917)

***Stizus turneri*** Froggatt, W.W. (1917). "Policeman flies." Fossorial wasps that catch flies. *Agric. Gaz. N.S.W.* **28**: 667–669 [668]. Type data: syntypes (probable), DARI, from Hay, N.S.W.

Distribution: Murray-Darling basin, N.S.W.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey Diptera. Biological references: Lohrmann, E. (1943). Die Grabwespengruppe der Stizinen. *Mitt. Münch. Entomol. Ges.* **33**: 188–208 (generic placement).

***Bembex*** Fabricius, 1775

***Bembex*** Fabricius, J.C. (1775). *Systema Entomologiae*, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus. Flensburgi et Lipsiae : Kortii xxvii 832 pp. [xxiii (pages not numbered)]. Type species *Bembex rostrata* Fabricius, 1781 by subsequent designation, see Latreille, P.A. (1810). *Considérations Générales sur l'Ordre Naturel des*

*Animaux Composant les Classes des Crustacés, des Arachnides, et des Insectes*; avec un Tableau Méthodique de leurs Genres, Disposés en Familles. Paris : F. Schoell 444 pp. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp.

***Bembex*** Fabricius, J.C. (1776). *Genera insectorum eorumque characteres naturales secundum numerum, figuram, situm et proportionem omnium partium oris, adiecta mantissa specierum nuper detectarum*. Chilonii : M.F. Bartschius 310 pp. [122] [emend. of *Bembix* Fabricius, 1775].

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [543].

***Bembix allunga*** Evans and Matthews, 1973

***Bembix allunga*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [137]. Type data: holotype, ANIC M. adult, from Yepoon, Qld.

Distribution: NE coastal, Murray-Darling basin, N coastal, N Gulf, Qld., N.S.W., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera, Neuroptera, Odonata, Homoptera. Biological references: Evans, H.E., Evans, M.A. & Hook, A. (1982). Observations on the nests and prey of Australian *Bembix* sand wasps (Hymenoptera : Sphecidae). *Aust. J. Zool.* **30**: 71–80 (nest, prey); Evans, H.E. (1982). Two new species of Australian *Bembix* sand wasps, with notes on other species of the genus (Hymenoptera, Sphecidae). *Aust. Entomol. Mag.* **9**: 7–12 (distribution).

***Bembix atrifrons*** Smith, 1856

***Bembex atrifrons*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [327]. Type data: holotype, BMNH 21.1.694 \*F. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

***Bembex flavilabris*** Smith, F. (1873). Descriptions of new species of fossorial Hymenoptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (4) **12**: 291–300, 402–415 [299]. Type data: holotype, BMNH 21.1.695 \*F. adult (seen 1929 by L.F. Graham), from W.A.

***Bembex funebris*** Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253–356 [353]. Type data: holotype, BMNH 21.1.696 \*M. adult (seen 1929 by L.F. Graham), from South Perth, W.A.

Taxonomic decision of Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [154].

Distribution: Murray-Darling basin, SE coastal, Lake Eyre basin, S Gulfs, W plateau, SW coastal, NW coastal, Qld., N.S.W., Vic., W.A., N.T.; S of Tropic of Capricorn, mainly in the dry interior. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Bembix aureofasciata* Turner, 1910**

***Bembix aureofasciata*** Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253-356 [354 pl 32 fig 14]. Type data: holotype, BMNH 21.1.697 \*M. adult (seen 1929 by L.F. Graham), from South Perth, W.A.

Distribution: SW coastal, W plateau, NW coastal, W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription).

***Bembix baringa* Evans and Matthews, 1973**

***Bembix baringa*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [47]. Type data: holotype, ANIC M. adult, from Wiluna, W.A.

Distribution: W plateau, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix berontha* Evans and Matthews, 1973**

***Bembix berontha*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [176]. Type data: holotype, ANIC M. adult, from Nilemah Station 50 mi S of Denham, W.A.

Distribution: NW coastal, W plateau, W.A.; only published localities Nilemah Station (50 mi S Denham), Carnarvon and Wiluna. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix boaliri* Evans and Matthews, 1973**

***Bembix boaliri*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [309]. Type data: holotype, SAMA \*F. adult, from 9 mi E of Everard Park, S.A.

Distribution: Lake Eyre basin, S.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix boonamin* Evans and Matthews, 1973**

***Bembix boonamin*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian

*Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [282]. Type data: holotype, SAMA \*M. adult, from Meekatharra-Billiluna Pool, Canning Stock Route, W.A.

Distribution: NW coastal, W plateau, W.A.; only published localities Meekatharra - Billiluna Pool, 80 km W Roy Hill. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix buntor* Evans and Matthews, 1973**

***Bembix buntor*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [87]. Type data: holotype, BMNH \*M. adult, from Bolgart, W.A.

Distribution: SW coastal, NW coastal, W plateau, W.A.; only published localities Bolgart, Yericoin, Anketell. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix burando* Evans and Matthews, 1973**

***Bembix burando*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [112]. Type data: holotype, BPBM \*F. adult, from Cooktown, Qld.

Distribution: NE coastal, Qld.; only published localities Cooktown and "Yanyarandi" (not found on map). Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix burraburra* Evans and Matthews, 1973**

***Bembix burraburra*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [168]. Type data: holotype, ANIC M. adult, from 15 mi E of Yalgoo, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix carripan* Evans and Matthews, 1973**

***Bembix carripan*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [129]. Type data: holotype, SAMA \*F. adult, from Meekatharra - Billiluna Pool, W.A.

Distribution: SW coastal, W plateau, W.A.; only published localities Meekatharra - Billiluna Pool and Southern Cross. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix cooba* Evans and Matthews, 1973**

***Bembix cooba*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix*

sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [171]. Type data: holotype, ANIC M. adult, from Packsaddle Mt., N.S.W.

Distribution: Murray-Darling basin, Lake Eyre basin, N.S.W., Vic.; only published localities Packsaddle Mt., Wilcannia, Clifton Downs and Rainbow. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Bembix coonundura* Evans and Matthews, 1973**

***Bembix coonundura*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [150]. Type data: holotype, BMNH \*M. adult, from Yanchep, W.A.

Distribution: SW coastal, W plateau, W.A.; only published localities Yanchep, Yallingup, Busselton, Jurien Bay and Wiluna (Lake Violet). Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Odonata. Biological references: Wheeler, W.M. & Dow, R. (1933). Unusual prey of *Bembix*. *Psyche Camb.* **40**: 57-59 (prey).

***Bembix cursitans* Handlirsch, 1894**

***Bembix cursitans*** Handlirsch, A. (1894). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. vii. (Schluss). *Sber. Akad. Wiss. Wien* **102**: 657-942 [762 pl 1 fig 30, pl 6 fig 27]. Type data: holotype, ZMB \*F. adult, from Australia (as New Holland).

Distribution: SW coastal, NW coastal, W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (nest, prey).

***Bembix egens* Handlirsch, 1894**

***Bembix egens*** Handlirsch, A. (1894). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. vii. (Schluss). *Sber. Akad. Wiss. Wien* **102**: 657-942 [753 pl 1 fig 25, pl 3 fig 24, pl 4 fig 12, pl 5 fig 38, pl 6 fig 22]. Type data: syntypes (probable), whereabouts unknown, from Australia.

Distribution: Lake Eyre basin, W plateau, NW coastal, W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription).

***Bembix eleebana* Evans and Matthews, 1973**

***Bembix eleebana*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix*

sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [85]. Type data: holotype, ANIC F. adult, from Dorrig, N.S.W.

Distribution: SE coastal, Lake Eyre basin, N.S.W., (Vic.), N.T.; only published localities Dorrig, ?Melbourne and Alice Springs. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix flavifrons* Smith, 1856**

***Bembex flavifrons*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207-497 London: British Museum [324]. Type data: holotype, BMNH 21.1.689 \*F. adult (seen 1929 by L.F. Graham), from Australia.

***Bembex saussurei*** Handlirsch, A. (1894). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. vii. (Schluss). *Sber. Akad. Wiss. Wien* **102**: 657-942 [873 pl 4 fig 17]. Type data: lectotype, ZMB \*F. adult, from Adelaide, S.A., designation by Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp.

Taxonomic decision of Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457-535 pl xxvi [505].

Distribution: NE coastal, Murray-Darling basin, SE coastal, S Gulfs, Qld., N.S.W., Vic., S.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription).

***Bembix flavipes* Smith, 1856**

***Bembex flavipes*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207-497 London: British Museum [325]. Type data: holotype, BMNH 21.1.699 \*F. adult (seen 1929 by L.F. Graham), from Australia.

***Bembix brevis*** Lohrmann, E. (1942). Neue *Bembix*-Arten des Wiener Naturhistorischen Museums. *Ann. Naturh. Mus. Wien* **52**: 155-160 [160]. Type data: holotype, NHMW \*F. adult, from Cooktown, Qld.

Taxonomic decision of Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [246].

Distribution: NE coastal, Murray-Darling basin, NW coastal, N coastal, N Gulf, Qld., N.S.W., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Apidae (*Trigona essingtoni* Cockerell) Evans, H.E., Evans, M.A. & Hook, A. (1982).



Observations on the nests and prey of Australian *Bembix* sand wasps (Hymenoptera : Sphecidae). *Aust. J. Zool.* **30**: 71–80 (nest, prey).

***Bembix flaviventris* Smith, 1873**

***Bembix flaviventris*** Smith, F. (1873). Descriptions of new species of fossorial Hymenoptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (4) **12**: 291–300, 402–415 [299]. Type data: holotype, BMNH 21.1.702 \*F. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

***Bembex calcarina*** Handlirsch, A. (1894). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. vii. (Schluss). *Sber. Akad. Wiss. Wien* **102**: 657–942 [754 pl 1 fig 26, pl 4 figs 13–14, pl 6 fig 23]. Type data: holotype, ZMB \*M. adult, from Adelaide, S.A.

Taxonomic decision of Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253–356 [351].

Distribution: Murray-Darling basin, Lake Eyre basin, S Gulfs, W plateau, SW coastal, NW coastal, Qld., N.S.W., Vic., S.A., W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription, nest, prey).

***Bembix furcata* Erichson, 1842**

***Bembex furcata*** Erichson, W.F. (1842). Beitrag zur Fauna von Vandiemensland mit besonderer Rücksicht auf die geographische Verbreitung der Insekten. *Arch. Naturg.* **8**: 83–287 [266]. Type data: lectotype, ZMB \*M. adult, from Tas., designation by Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp.

Distribution: Murray-Darling basin, SE coastal, S Gulfs, SW coastal, NW coastal, Qld., N.S.W., Vic., Tas., S.A., W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription, nest, prey).

***Bembix gelane* Evans and Matthews, 1973**

***Bembix gelane*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [232]. Type data: holotype, ANIC M. adult, from 17 mi W of Morven, Qld.

Distribution: Lake Eyre basin, Qld.; only published localities near Morven and Charleville. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix ginjulla* Evans and Matthews, 1973**

***Bembix ginjulla*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [188]. Type data: holotype, ANIC M. adult, from 4 mi E of Wilcannia, N.S.W.

Distribution: Murray-Darling basin, N.S.W., Vic.; only published localities Wilcannia, Caldwell and Wilkur. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix goyarra* Evans and Matthews, 1973**

***Bembix goyarra*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [84]. Type data: holotype, WAM 71-804 \*M. adult, from Kathleen Valley, W.A.

Distribution: W plateau, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix gunamarra* Evans and Matthews, 1973**

***Bembix gunamarra*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [68]. Type data: holotype, ANIC M. adult, from Yeppoon, Qld.

Distribution: NE coastal, N coastal, Qld., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Bembix gurindji* Evans, 1982**

***Bembix gurindji*** Evans, H.E. (1982). Two new species of Australian *Bembix* sand wasps, with notes on other species of the genus (Hymenoptera, Sphecidae). *Aust. Entomol. Mag.* **9**: 7–12 [7]. Type data: holotype, ANIC M. adult, from Beebom Crossing, Daly River, on Tipperary Station, N.T.

Distribution: N coastal, W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix hokarra* Evans and Matthews, 1973**

***Bembix hokarra*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [94]. Type data: holotype, CAS \*M. adult, from Milly Milly, W.A.

Distribution: NW coastal, N coastal, W.A.; only published localities Milly Milly, Mileura and Louisa Downs. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix kamulla* Evans and Matthews, 1973**

***Bembix kamulla*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix*

sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [77]. Type data: holotype, AM M. adult, from Caldwell, N.S.W.

Distribution: Murray-Darling basin, Lake Eyre basin, SW coastal, Qld., N.S.W., (Vic.), W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Neuroptera, Diptera. Biological references: Evans, H.E., Evans, M.A. & Hook, A. (1982). Observations on the nests and prey of Australian *Bembix* sand wasps (Hymenoptera : Sphecidae). *Aust. J. Zool.* **30**: 71-80 (nest, prey).

***Bembix kora* Evans and Matthews, 1973**

***Bembix kora*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [143]. Type data: holotype, ANIC M. adult, from 50 mi S of Nappamerry, Qld.

Distribution: NE coastal, Murray-Darling basin, Lake Eyre basin, Qld.; only published localities near Napamerry, Cunnamulla and Rockhampton. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix kununurra* Evans and Matthews, 1973**

***Bembix kununurra*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [284]. Type data: holotype, ANIC M. adult (unnumbered), from Kununurra and vicinity, W.A.

Distribution: N coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Evans, H.E., Evans, M.A. & Hook, A. (1982). Observations on the nests and prey of Australian *Bembix* sand wasps (Hymenoptera : Sphecidae). *Aust. J. Zool.* **30**: 71-80 (nest, prey); Evans, H.E. (1982). Two new species of Australian *Bembix* sand wasps, with notes on other species of the genus (Hymenoptera, Sphecidae). *Aust. Entomol. Mag.* **9**: 7-12 (description of female).

***Bembix lamellata* Handlirsch, 1894**

***Bembex lamellata*** Handlirsch, A. (1894). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. vii. (Schluss). *Sber. Akad. Wiss. Wien* **102**: 657-942 [842 pl 2 fig 36, pl 7 fig 26]. Type data: holotype, ZMB \*M. adult, from Adelaide, S.A.

Distribution: NE coastal, Murray-Darling basin, Lake Eyre basin, S Gulfs, W plateau, NW coastal, Qld., N.S.W., Vic., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian

*Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription, nest, prey).

***Bembix latifasciata* Turner, 1912**

***Bembex latifasciata*** Turner, R.E. (1912). Notes on fossorial Hymenoptera. IX. On some new species from the Australian and Austro-Malayan regions. *Ann. Mag. Nat. Hist.* (8) **10**: 48-63 [57]. Type data: holotype, BMNH 21.1.692 \*M. adult (seen 1929 by L.F. Graham), from Strelley River, W.A.

Distribution: Lake Eyre basin, W plateau, NW coastal, N.S.W., W.A., N.T.; localities other than type locality are uncertain. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription).

***Bembix leeuwinensis* Turner, 1915**

***Bembex leeuwinensis*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XVIII. On the Australian species of *Bembex*. *Ann. Mag. Nat. Hist.* (8) **16**: 434-447 [446]. Type data: holotype, BMNH 21.1.698 \*M. adult (seen 1929 by L.F. Graham), from Yallingup, W.A.

Distribution: SW coastal, W.A.; only published localities Yallingup and Busselton. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription).

***Bembix littoralis* Turner, 1908**

***Bembex littoralis*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457-535 pl xxvi [502]. Type data: holotype, BMNH 21.1.700 \*M. adult (seen 1929 by L.F. Graham), from Darwin, N.T.

***Bembix flavolatera*** Parker, J.B. (1929). A generic revision of the fossorial wasps of the tribes Stizini and Bembicini with notes and descriptions of new species. *Proc. U.S. Natl. Mus.* **75**(2776): 1-203 [134]. Type data: holotype, ZMB \*M. adult, from Hermannsburg, N.T.

Taxonomic decision of Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [268].

Distribution: NE coastal, SE coastal, Murray-Darling basin, Lake Eyre basin, S Gulfs, W plateau, SW coastal, NW coastal, N coastal, N Gulf, Qld., N.S.W., Vic., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological

references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription, nest, prey).

***Bembix lobimana*** Handlirsch, 1894

***Bembex lobimana*** Handlirsch, A. (1894). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. vii. (Schluss). *Sber. Akad. Wiss. Wien* **102**: 657–942 [755 pl 1 fig 27, pl 4 fig 15, pl 6 fig 24]. Type data: lectotype, GMHN \*M. adult, from N.S.W., designation by Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp.

Distribution: Murray-Darling basin, S Gulfs, NW coastal, N.S.W., S.A., W.A.; only published localities N.S.Wales, Nov. Holl., Austr. merid., False Bay (Eyre Peninsula) and Port Vincent. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription).

***Bembix loorea*** Evans and Matthews, 1973

***Bembix loorea*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [308]. Type data: holotype, ANIC F. adult, from near Reedy Rockhole, Amadeus Basin, N.T.

Distribution: W plateau, N.T.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix magarra*** Evans and Matthews, 1973

***Bembix magarra*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [233]. Type data: holotype, QM T7139 \*F. adult, from South Hedland, W.A.

Distribution: Murray-Darling basin, NW coastal, Vic., W.A.; only published localities Wyperfeld Natl. Park and South Hedland. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix maliki*** Evans and Matthews, 1973

***Bembix maliki*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [96]. Type data: holotype, SAMA \*M. adult, from Coward Springs, 82 mi NW of Maree, S.A.

Distribution: Lake Eyre basin, S.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix mareeba*** Evans and Matthews, 1973

***Bembix mareeba*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [42]. Type data: holotype, ANIC M. adult, from Granite Creek, 21 mi S of Miriam Vale, Qld.

Distribution: NE coastal, Qld.; Brisbane to Cape York. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Evans, H.E., Evans, M.A. & Hook, A. (1982). Observations on the nests and prey of Australian *Bembix* sand wasps (Hymenoptera : Sphecidae). *Aust. J. Zool.* **30**: 71–80 (nest, prey).

***Bembix marhra*** Evans and Matthews, 1973

***Bembix marhra*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [212]. Type data: holotype, SAMA \*M. adult, from Wolf Creek, W.A.

Distribution: N coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix marsupiata*** Handlirsch, 1894

***Bembex marsupiata*** Handlirsch, A. (1894). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. vii. (Schluss). *Sber. Akad. Wiss. Wien* **102**: 657–942 [757 pl 6 fig 25]. Type data: lectotype, NHMW \*F. adult, from Swan River, W.A., designation by Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp.

Distribution: SW coastal, W.A.; two specimens labelled "N. S. Wales", this locality is queried. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription).

***Bembix mianga*** Evans and Matthews, 1973

***Bembix mianga*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [213]. Type data: holotype, ANIC M. adult, from 3 mi W of Wentworth, N.S.W.



Distribution: Murray-Darling basin, Lake Eyre basin, W plateau, NW coastal, Qld., N.S.W., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Bembix minya* Evans and Matthews, 1973**

***Bembix minya*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [147]. Type data: holotype, ANIC M. adult, from 5–15 mi S of Rainbow, Vic.

Distribution: Murray-Darling basin, S Gulfs, Qld., Vic., S.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix mokari* Evans and Matthews, 1973**

***Bembix mokari*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [310]. Type data: holotype, SAMa \*F. adult, from Coward Springs, 82 mi NW of Maree, S.A.

Distribution: Lake Eyre basin, S.A., (Vic.); only published localities Coward Springs, ?Vic. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix moma* Evans and Matthews, 1973**

***Bembix moma*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [195]. Type data: holotype, ANIC M. adult, from Kununurra and vicinity, W.A.

Distribution: Murray-Darling basin, Lake Eyre basin, W plateau, SW coastal, NW coastal, N coastal, N Gulf, Qld., N.S.W., Vic., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Hymenoptera.

***Bembix moonga* Evans and Matthews, 1973**

***Bembix moonga*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [167]. Type data: holotype, ANIC M. adult, from Wiluna, W.A.

Distribution: W plateau, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix mundurra* Evans and Matthews, 1973**

***Bembix mundurra*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [179]. Type data: holotype, WAM 73-644 \*M. adult, from 6 mi W of Mullewa, W.A.

Distribution: Lake Eyre basin, SW coastal, NW coastal, W plateau, N.S.W., W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Bembix munta* Evans and Matthews, 1973**

***Bembix munta*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [210]. Type data: holotype, ANIC M. adult, from 60 mi S of Carnarvon, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix musca* Handlirsch, 1894**

***Bembex musca*** Handlirsch, A. (1894). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. vii. (Schluss). *Sber. Akad. Wiss. Wien* **102**: 657–942 [844 pl 2 fig 35, pl 7 fig 27]. Type data: holotype, GMNH \*M. adult, from Rockhampton, Qld.

***Bembex mackayensis*** Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253–356 [351]. Type data: holotype, BMNH 21.1,701 \*M. adult (seen 1929 by L.F. Graham), from Mackay and Cairns, Qld.

Taxonomic decision of Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [251].

Distribution: NE coastal, SE coastal, Murray-Darling basin, N coastal, Qld., N.S.W., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Hymenoptera (*Trigona carbonaria* Smith) Apidae Evans, H.E., Evans, M.A. & Hook, A. (1982). Observations on the nests and prey of Australian *Bembix* sand wasps (Hymenoptera : Sphecidae). *Aust. J. Zool.* **30**: 71–80 (nest, prey).

***Bembix nigropectinata* Turner, 1936**

***Bembex nigropectinatus*** Turner, R.E. (1936). Notes on fossorial Hymenoptera. XLV. On new sphegid wasps from Australia. *Ann. Mag. Nat. Hist. (10)* **18**: 533–545 [538]. Type data: holotype, BMNH 21.1,691 \*M. adult, from Mingenew, W.A.

Distribution: NW coastal, W.A.; only published localities Mingenew, Maya and Nilemah Station. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription).

***Bembix obiri* Evans, 1982**

***Bembix obiri*** Evans, H.E. (1982). Two new species of Australian *Bembix* sand wasps, with notes on other

species of the genus (Hymenoptera, Sphecidae). *Aust. Entomol. Mag.* **9**: 7–12 [10]. Type data: holotype, ANIC M. adult, from 16 km E by N of Mt. Cahill, N.T.

Distribution: N coastal, N.T.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix octosetosa*** Lohrmann, 1942

***Bembix octosetosa*** Lohrmann, E. (1942). Neue *Bembix*-Arten des Wiener Naturhistorischen Museums. *Ann. Naturh. Mus. Wien* **52**: 155–160 [158]. Type data: holotype, NHMW \*F. adult, from Rockhampton, Qld.

Distribution: NE coastal, Murray-Darling basin, Qld., N.S.W., Vic. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription); Evans, H.E., Evans, M.A. & Hook, A. (1982). Observations on the nests and prey of Australian *Bembix* sand wasps (Hymenoptera : Sphecidae). *Aust. J. Zool.* **30**: 71–80 (nest, prey).

***Bembix olba*** Evans and Matthews, 1973

***Bembix olba*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [133]. Type data: holotype, SAMA \*M. adult, from near Alice Springs, N.T.

Distribution: Lake Eyre basin, NW coastal, W plateau, Qld., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix oomborra*** Evans and Matthews, 1973

***Bembix oomborra*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [83]. Type data: holotype, BMNH \*M. adult, from Darwin, N.T.

Distribution: N coastal, N.T.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix ourapilla*** Evans and Matthews, 1973

***Bembix ourapilla*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [235]. Type data: holotype, ANIC M. adult, from Nilemah Station 50 mi S of Denham, W.A.

Distribution: NW coastal, W.A.; only published localities Nilemah Station and 68 mi N of Northampton. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix palmata*** Smith, 1856

***Bembex palmata*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [325]. Type data: holotype, BMNH 21.1.686 \*M. adult (seen 1929 by L.F. Graham), from ?Australia.

***Bembex tridentifera*** Smith, F. (1873). Descriptions of new species of fossorial Hymenoptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (4) **12**: 291–300, 402–415 [298]. Type data: holotype, BMNH 21.1.687 \*F. adult (seen 1929 by L.F. Graham), from Moreton Bay, Qld.

Taxonomic decision of Handlirsch, A. (1894). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. vii. (Schluss). *Sber. Akad. Wiss. Wien* **102**: 657–942 [751].

Distribution: NE coastal, SE coastal, Murray-Darling basin, S Gulfs, N coastal, Qld., N.S.W., A.C.T., Vic., S.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription, nest, prey).

***Bembix palona*** Evans and Matthews, 1973

***Bembix palona*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [190]. Type data: holotype, ANIC M. adult, from 5 mi N of Nocatunga, Qld.

Distribution: Murray-Darling basin, Bulloo River basin, Lake Eyre basin, S Gulfs, NW coastal, Qld., N.S.W., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix pectinipes*** Handlirsch, 1894

***Bembex palmata*** Smith, F. (1873). Descriptions of new species of fossorial Hymenoptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (4) **12**: 291–300, 402–415 [298] [*non Bembex palmata* Smith, 1856]. Type data: holotype, BMNH 21.1.688 \*M. adult (seen 1929 by L.F. Graham), from N. Australia.

***Bembex pectinipes*** Handlirsch, A. (1894). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. vii. (Schluss). *Sber. Akad. Wiss. Wien* **102**: 657–942 [875 pl 4 fig 18]. Type data: holotype, ZMH (destroyed in war), from Qld.

Taxonomic decision of Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [505].

Distribution: NE coastal, Lake Eyre basin, N coastal, Qld., S.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription, prey).

***Bembix pikati* Evans and Matthews, 1973**

***Bembix pikati*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [230]. Type data: holotype, SAMA \*M. adult, from 76 mi W of Musgrave Park, S.A.

Distribution: Lake Eyre basin, W plateau, S.A.; only published localities Musgrave Park and vicinity and Everard Park. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix pillara* Evans and Matthews, 1973**

***Bembix pillara*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [226]. Type data: holotype, ANIC M. adult, from Lake Way, 10 mi S of Wiluna, W.A.

Distribution: W plateau, NW coastal, W.A.; only published localities Lake Way, Nilemah Station and Wiluna. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix promontorii* Lohrmann, 1942**

***Bembix promontorii*** Lohrmann, E. (1942). Neue *Bembix*-Arten des Wiener Naturhistorischen Museums. *Ann. Naturh. Mus. Wien* **52**: 155-160 [157]. Type data: holotype, NHMW \*M. adult, from Cape York, Qld.

Distribution: NE coastal, SE coastal, Qld., N.S.W. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. & Matthews, R.W. 1973. Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription); Evans, H.E., Evans, M.A. & Hook, A. (1982). Observations on the nests and prey of Australian *Bembix* sand wasps (Hymenoptera : Sphecidae). *Aust. J. Zool.* **30**: 71-80 (nest).

***Bembix pulka* Evans and Matthews, 1973**

***Bembix pulka*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [166]. Type data: holotype, SAMA \*F. adult, from 30 mi S Mt. Davies, Tompkinson Ranges, S.A.

Distribution: W plateau, S.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix severa* Smith, 1873**

***Bembex severa*** Smith, F. (1873). Descriptions of new species of fossorial Hymenoptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (4) **12**: 291-300, 402-415 [297]. Type data: holotype, BMNH 21.1.693 \*F. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

Distribution: Murray-Darling basin, Lake Eyre basin, S Gulfs, W plateau, SW coastal, NW coastal, N coastal, N.S.W., Vic., S.A., W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription).

***Bembix thooma* Evans and Matthews, 1973**

***Bembix thooma*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [183]. Type data: holotype, ANIC F. adult, from Lake Violet, 6 mi S of Wiluna, W.A.

Distribution: Murray-Darling basin, Lake Eyre basin, W plateau, Qld., N.S.W., Vic., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Hymenoptera (Thynninae). Biological references: Evans, H.E. (1982). Two new species of Australian *Bembix* sand wasps, with notes on other species of the genus (Hymenoptera, Sphecidae). *Aust. Entomol. Mag.* **9**: 7-12 (distribution).

***Bembix tibooburra* Evans and Matthews, 1973**

***Bembix tibooburra*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [193]. Type data: holotype, SAMA \*M. adult, from Everard Park, S.A.

Distribution: Lake Eyre basin, W plateau, NW coastal, Qld., N.S.W., S.A., W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix trepida* Handlirsch, 1894**

***Bembex trepida*** Handlirsch, A. (1894). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. vii. (Schluss). *Sber. Akad. Wiss. Wien* **102**: 657-942 [759 pl 1 fig 28, pl 4 fig 16, pl 6 fig 26]. Type data: lectotype, NHMW \*M. adult, from Australia (as New Holland), designation by Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp.



***Bembix victoriensis*** Lohrmann, E. (1942). Neue *Bembix*-Arten des Wiener Naturhistorischen Museums. *Ann. Naturh. Mus. Wien* **52**: 155–160 [159]. Type data: holotype, NHMW \*F. adult, from Vic.

Taxonomic decision of Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp.

Distribution: NE coastal, SE coastal, Murray-Darling basin, S Gulfs, Qld., N.S.W., A.C.T., Vic., S.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera.

***Bembix tuberculiventris*** Turner, 1908

***Bembix tuberculiventris*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphecidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [503]. Type data: holotype, BMNH 21.1.703 \*M. adult (seen 1929 by L.F. Graham), from Cooktown, Qld.

Distribution: NE coastal, Murray-Darling basin, Lake Eyre basin, S Gulfs, NW coastal, N coastal, N Gulf, Qld., N.S.W., Vic., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Hymenoptera (Colletidae, Halictidae). Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription, nest, prey); Evans, H.E., Evans, M.A. & Hook, A. (1982). Observations on the nests and prey of Australian *Bembix* sand wasps (Hymenoptera : Sphecidae). *Aust. J. Zool.* **30**: 71–80 (nest, prey).

***Bembix uloola*** Evans and Matthews, 1973

***Bembix uloola*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [208]. Type data: holotype, ANIC M. adult, from 34 mi W of Wiluna, W.A.

Distribution: W plateau, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix undeneya*** Evans and Matthews, 1973

***Bembix undeneya*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [142]. Type data: holotype, CAS \*M. adult, from MacDonald Downs, N.T.

Distribution: Murray-Darling basin, Lake Eyre basin, Qld., N.S.W., Vic., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix variabilis*** Smith, 1856

***Bembix variabilis*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphecidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [325]. Type data: holotype, BMNH 21.1.705 \*F. adult (seen 1929 by L.F. Graham), from Hunter River, W.A. and Port Essington, N.T..

***Bembex raptor*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphecidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [326]. Type data: holotype, BMNH 21.1.704 \*M. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

***Bembex crabroniformis*** Smith, F. (1873). Descriptions of new species of fossorial Hymenoptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (4) **12**: 291–300, 402–415 [296]. Type data: holotype, BMNH 21.1.706 \*M. adult (seen 1929 by L.F. Graham), from Port Essington, N.T.

Taxonomic decision of Handlirsch, A. (1894). Monographie der mit *Nysson* und *Bembex* verwandten Grabwespen. vii. (Schluss). *Sber. Akad. Wiss. Wien* **102**: 657–942 [846,901].

Distribution: NE coastal, SE coastal, Murray-Darling basin, Lake Eyre basin, S Gulfs, W plateau, SW coastal, NW coastal, N coastal, N Gulf, Qld., N.S.W., A.C.T., Vic., S.A., W.A., N.T.; also found on Timor. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription, nest, prey).

***Bembix vespiformis*** Smith, 1856

***Bembex vespiformis*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphecidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [327]. Type data: holotype, BMNH 21.1.690 \*M. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

Distribution: NE coastal, Murray-Darling basin, S Gulfs, Lake Eyre basin, W plateau, SW coastal, Qld., N.S.W., Vic., S.A., W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Diptera. Biological references: Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. (redescription, nest, prey).

***Bembix wadamiri*** Evans and Matthews, 1973

***Bembix wadamiri*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem.*

*Am. Entomol. Inst.* 20: iv 387 pp. [145]. Type data: holotype, BPBM \*M. adult, from Maningrida, Arnhem Land, N.T.

Distribution: N coastal, W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix wangoola*** Evans and Matthews, 1973

***Bembix wangoola*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* 20: iv 387 pp. [285]. Type data: holotype, ANIC M. adult, from Packsaddle Mt., N.S.W.

Distribution: Murray-Darling basin, Lake Eyre basin, W plateau, N.S.W., S.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix wanna*** Evans and Matthews, 1973

***Bembix wanna*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* 20: iv 387 pp. [149]. Type data: holotype, NMV \*M. adult, from Vic.

Distribution: Murray-Darling basin, SE coastal, Vic.; only published localities Williamstown, Macedon and Gunbower. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix warawara*** Evans and Matthews, 1973

***Bembix warawara*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* 20: iv 387 pp. [169]. Type data: holotype, AM M. adult, from Calumet, 26 mi NE Binnaway, N.S.W.

Distribution: Murray-Darling basin, Qld., N.S.W., Vic.; only published localities Cunnamulla, Calumet and 80 mi. N of Melbourne. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix weema*** Evans and Matthews, 1973

***Bembix weema*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* 20: iv 387 pp. [80]. Type data: holotype, AM M. adult (unnumbered), from Wydgee Station near Mt. Magnet, W.A.

Distribution: W plateau, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix wilcannia*** Evans and Matthews, 1973

***Bembix wilcannia*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem.*

*Am. Entomol. Inst.* 20: iv 387 pp. [135]. Type data: holotype, ANIC M. adult, from 10 mi W of Wilcannia, N.S.W.

Distribution: Murray-Darling basin, Lake Eyre basin, Qld., N.S.W.; only published localities Wilcannia, Packsaddle Mt. and 57 mi NW Quilpie. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Neuroptera.

***Bembix wiluna*** Evans and Matthews, 1973

***Bembix wiluna*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* 20: iv 387 pp. [89]. Type data: holotype, ANIC M. adult, from Wiluna, W.A.

Distribution: Murray-Darling basin, Lake Eyre basin, W plateau, Qld., N.S.W., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. (1982). Two new species of Australian *Bembix* sand wasps, with notes on other species of the genus (Hymenoptera, Sphecidae). *Aust. Entomol. Mag.* 9: 7-12 (distribution).

***Bembix wollowra*** Evans and Matthews, 1973

***Bembix wollowra*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* 20: iv 387 pp. [175]. Type data: holotype, CAS \*M. adult, from Milly Milly, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix wolpa*** Evans and Matthews, 1973

***Bembix wolpa*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* 20: iv 387 pp. [311]. Type data: holotype, ANIC F. adult, from 16 mi W of Alice Springs, N.T.

Distribution: Lake Eyre basin, SW coastal, W.A., N.T.; only published localities Beverley and 16 mi W of Alice Springs. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix wowine*** Evans and Matthews, 1973

***Bembix wowine*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* 20: iv 387 pp. [81]. Type data: holotype, ANIC M. adult, from Nilemah Station 50 mi S of Denham, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix yalta* Evans and Matthews, 1973**

***Bembix yalta*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [206]. Type data: holotype, BMNH \*M. adult, from Bolgart, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Bembix yunkara* Evans and Matthews, 1973**

***Bembix yunkara*** Evans, H.E. & Matthews, R.W. (1973). Systematics and nesting behavior of Australian *Bembix* sand wasps (Hymenoptera, Sphecidae). *Mem. Am. Entomol. Inst.* **20**: iv 387 pp. [92]. Type data: holotype, ANIC M. adult, from Nilemah Station 50 mi S of Denham, W.A.

Distribution: NW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris* Latreille, 1802**

***Cerceris*** Latreille, P.A. (1802). *Histoire Naturelle, Générale et Particulière des Crustacés et des Insectes*. Paris : F. Dufart Vol. 3 xii 13+467 pp. [367]. Type species *Philanthus ornatus* Fabricius, 1790 by subsequent designation, see Latreille, P.A. (1810). *Considérations Générales sur l'Ordre Naturel des Animaux Composant les Classes des Crustacés, des Arachnides, et des Insectes*; avec un Tableau Méthodique de leurs Genres, Disposés en Familles. Paris : F. Schoell 444 pp. Compiled from secondary source: Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp.

This group is found worldwide, see Bohart, R.M. & Menke, A.S. (1976). *Sphecid Wasps of the World : a Generic Revision*. Berkeley : Univ. California Press ix 695 pp. [575].

***Cerceris adae* Turner, 1936**

***Cerceris adae*** Turner, R.E. (1936). Notes on fossorial Hymenoptera. XLV. On new sphegid wasps from Australia. *Ann. Mag. Nat. Hist.* (10) **18**: 533-545 [535]. Type data: syntypes (probable), ?BMNH \*adult, from 10 mi SW Perth, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris alastoroides* Turner, 1914**

***Cerceris alastoroides*** Turner, R.E. (1914). New fossorial Hymenoptera from Australia and Tasmania. *Proc. Linn. Soc. N.S.W.* **38**: 608-623 [619]. Type data: holotype, NMV \*F. adult, from Borroloola, N.T.

Distribution: N Gulf, N.T.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris anthicivora* Evans, 1982**

***Cerceris anthicivora*** Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299-380 [369]. Type data: holotype, ANIC F. adult, from Elizabeth River 40 km S Darwin, N.T.

Distribution: N Gulf, N coastal, Qld., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Coleoptera (Anthicidae). Biological references: Evans, H.E. & Hook, A.W. (1982). Communal nesting in Australian *Cerceris* digger wasps. pp. 159-163 in Breed, M.D., Michener, C.D. & Evans, H.E. (eds.) *The Biology Social Insects*. Proceedings of the Ninth Congress of the International Union for the Study of Social Insects, Boulder, Colorado, August 1982. Boulder : Westview Press (biology).

***Cerceris antipodes* Smith, 1856**

***Cerceris antipodes*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207-497 London : British Museum [451]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Australia.

***Cerceris saeva*** Smith, F. (1873). Descriptions of new species of fossorial Hymenoptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (4) **12**: 291-300, 402-415 [414]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Lower Plenty, Vic.

***Cerceris brisbanensis*** Cockerell, T.D.A. (1930). Wasps of the genus *Cerceris* in the Queensland Museum. *Mem. Qd. Mus.* **10**: 32-36 [34]. Type data: syntypes, QM \*F. adult, whereabouts of others unknown, from Darra, Qld.

***Cerceris goodwini*** Cockerell, T.D.A. (1930). Wasps of the genus *Cerceris* in the Queensland Museum. *Mem. Qd. Mus.* **10**: 32-36 [35]. Type data: holotype, QM T4017 \*F. adult, from Stanthorpe, Qld.

***Cerceris zieglerei*** Rayment, T. (1947). New bees and wasps - Part IV. A new *Cerceris* wasp, and some small chrysomelid beetles. *Vict. Nat.* **63**: 256-260 [256]. Type data: holotype, ANIC M. adult, from Emerald, Vic.

***Cerceris sculleni*** Tsuneki, K. (1968). On some *Cerceris* from Australia, with a tentative key to the Australian species (Hymenoptera, Sphecidae). *Etizenia* **28**: 1-32 [15]. Type data: holotype, AMNH \*F. adult, from N.S.W.

Taxonomic decision of Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299-380 [356].

Distribution: NE coastal, Murray-Darling basin, SE coastal, S Gulfs, Lake Eyre basin, Qld., N.S.W., A.C.T., Vic., S.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Coleoptera (Chrysomelidae). Biological references: Turner, R.E. (1912). A revision of the Australian species of the genus *Cerceris*. (Hymenoptera.). *Proc. Linn. Soc. N.S.W.* **36**: 644-678 (redescription); Evans, H.E. &



Matthews, R.W. (1970). Notes on the nests and prey of Australian wasps of the genus *Cerceris* (Hymenoptera : Sphecidae). *J. Aust. Entomol. Soc.* **9**: 153–156 (nest, prey); Alcock, J. (1980). Communal nesting in an Australian solitary wasp, *Cerceris antipodes* Smith (Hymenoptera, Sphecidae). *J. Aust. Entomol. Soc.* **19**: 223–228 (nest).

***Cerceris armigera* Turner, 1917**

***Cerceris armigera*** Turner, R.E. (1917). Notes on fossorial Hymenoptera. XXV. On new Sphecoidea in the British Museum. *Ann. Mag. Nat. Hist. (8)* **19**: 104–113 [104]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Darra, Qld.

***Cerceris armigera rufofusca*** Turner, R.E. (1936). Notes on fossorial Hymenoptera. XLV. On new sphegid wasps from Australia. *Ann. Mag. Nat. Hist. (10)* **18**: 533–545 [538]. Type data: holotype, BMNH \*F. adult, from Mundaring Weir, W.A.

Taxonomic decision of Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [360].

Distribution: NE coastal, Murray-Darling basin, Lake Eyre basin, S Gulfs, SW coastal, Qld., N.S.W., S.A., W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. & Hook, A.W. (1982). Communal nesting in Australian *Cerceris* Digger Wasps. pp. 159–163 in Breed, M.D., Michener, C.D. & Evans, H.E. (eds.) (1982). *The Biology of Social Insects*. Proceedings of the Ninth Congress of the International Union for the Study of Social Insects, Boulder, Colorado, August 1982. Boulder : Westview Press (biology).

***Cerceris aurantiaca* Smith, 1873**

***Cerceris aurantiaca*** Smith, F. (1873). Descriptions of new species of fossorial Hymenoptera in the collection of the British Museum. *Ann. Mag. Nat. Hist. (4)* **12**: 291–300, 402–415 [414]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from S.A.

Distribution: Murray-Darling basin, Lake Eyre basin, S Gulfs, (N.S.W.), Qld., Vic., S.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Turner, R.E. (1912). A revision of the Australian species of the genus *Cerceris*. (Hymenoptera.). *Proc. Linn. Soc. N.S.W.* **36**: 644–678 (redescription); Tsuneki, K. (1968). On some *Cerceris* from Australia, with a tentative key to the Australian species (Hymenoptera, Sphecidae). *Etizenia* **28**: 1–32 (redescription); Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 (redescription, distribution).

***Cerceris australis* Saussure, 1855**

***Cerceris australis*** Saussure, H. de (1855). Mélanges hyménoptérologiques. *Mém. Soc. Phys. Hist. Nat. Genève* **14**: 1–67 [6]. Type data: syntypes (probable), whereabouts unknown, from Tas.

***Cerceris nigrocincta*** Smith, F. (1856). *Catalogue of Hymenopterous Insects in the Collection of the British Museum*. Part IV, Sphegidae, Larridae and Crabronidae. pp. 207–497 London : British Museum [450]. Type data: syntypes (probable), BMNH \*F. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

**[*Cerceris sculleni*]** Tsuneki, K. (1968). On some *Cerceris* from Australia, with a tentative key to the Australian species (Hymenoptera, Sphecidae). *Etizenia* **28**: 1–32 [15] [male paratype not *Cerceris antipodes* Smith, 1856 vide Evans, H.E. (1982). *op. cit.*] from N.S.W.

Taxonomic decision of Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [348].

Distribution: NE coastal, SE coastal, Murray-Darling basin, S Gulfs, (Tas.), Qld., N.S.W., A.C.T., Vic., S.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Coleoptera (Scarabaeidae). Biological references: Tsuneki, K. (1968). On some *Cerceris* from Australia, with a tentative key to the Australian species (Hymenoptera, Sphecidae). *Etizenia* **28**: 1–32 (redescription); Evans, H.E. & Matthews, R.W. (1970). Notes on the nests and prey of Australian wasps of the genus *Cerceris* (Hymenoptera : Sphecidae). *J. Aust. Entomol. Soc.* **9**: 153–156 (nest, prey); Evans, H.E. & Hook, A.W. (1982). Communal nesting in the digger wasp *Cerceris australis* (Hymenoptera : Sphecidae). *Aust. J. Zool.* **30**: 557–568 (biology).

***Cerceris balteata* Evans, 1982**

***Cerceris balteata*** Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [314]. Type data: holotype, ANIC F. adult, from Bendora, A.C.T.

Distribution: SE coastal, Murray-Darling basin, N.S.W., A.C.T., Vic. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris calida* Turner, 1915**

***Cerceris calida*** Turner, R.E. (1915). Notes on fossorial Hymenoptera. XV. New Australian Crabronidae. *Ann. Mag. Nat. Hist. (8)* **15**: 62–96 [66]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Kuranda, Qld.

Distribution: NE coastal, N coastal, Qld., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 (redescription, distribution).

***Cerceris cucullata* Bingham, 1912**

***Cerceris cucullata*** Bingham, C.T. (1912). South African and Australian Aculeate Hymenoptera in the Oxford Museum. *Trans. Entomol. Soc. Lond.* **1912**: 375–383 [375]. Type data: holotype, OUM \*M. adult, from Port Essington, N.T.

Distribution: N coastal, N.T.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris cunnamulla* Evans, 1982**

***Cerceris cunnamulla*** Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [366]. Type data: holotype, ANIC F. adult, from 30 km S Cunnamulla, Qld.

Distribution: Lake Eyre basin, Murray-Darling basin, N coastal, S Gulfs, Qld., N.S.W., S.A., W.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris darrensis* Cockerell, 1930**

***Cerceris darrensis*** Cockerell, T.D.A. (1930). Wasps of the genus *Cerceris* in the Queensland Museum. *Mem. Qd. Mus.* **10**: 32–36 [34]. Type data: holotype, QM T4016 \*F. adult, from Darra, Qld.

Distribution: NE coastal, (Murray-Darling basin), (N.S.W.), Qld.; only known localities Brisbane and (near Cobar and Nyngan). Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 (redescription, distribution).

***Cerceris dedariensis* Turner, 1936**

***Cerceris dedariensis*** Turner, R.E. (1936). Notes on fossorial Hymenoptera. XLV. On new sphegid wasps from Australia. *Ann. Mag. Nat. Hist.* (10) **18**: 533–545 [534]. Type data: holotype, BMNH \*F. adult, from Dedari, W.A.

Distribution: W plateau; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris euchroma* Turner, 1910**

***Cerceris euchroma*** Turner, R.E. (1910). New fossorial Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* **1910**: 407–429 pl 50 [424 pl 50 fig 11]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, (Murray-Darling basin), (Lake Eyre basin), Qld., N.S.W., Vic., S.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Turner, R.E. (1912). A revision of the Australian species of the genus *Cerceris*. (Hymenoptera.). *Proc. Linn.*

*Soc. N.S.W.* **36**: 644–678 (redescription); Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 (redescription, distribution).

***Cerceris eungella* Evans, 1982**

***Cerceris eungella*** Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [353]. Type data: holotype, QM T8489 \*F. adult, from Eungella Natl. Park, Qld.

Distribution: NE coastal, Murray-Darling basin, Lake Eyre basin, Qld., N.S.W., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris exleyae* Evans, 1982**

***Cerceris exleyae*** Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [376]. Type data: holotype, QM T8494 \*F. adult, from Longreach, Qld.

Distribution: Lake Eyre basin, Murray-Darling basin, Qld., N.S.W.; only published localities Longreach and Yarrawin. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris fluvialis* Smith, 1873**

***Cerceris fluvialis*** Smith, F. (1873). Descriptions of new species of fossorial Hymenoptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (4) **12**: 291–300, 402–415 [412]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Swan River, W.A.

Distribution: Murray-Darling basin, Lake Eyre basin, SW coastal, Qld., N.S.W., S.A., W.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Turner, R.E. (1912). A revision of the Australian species of the genus *Cerceris*. (Hymenoptera.). *Proc. Linn. Soc. N.S.W.* **36**: 644–678 (redescription); Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380.

***Cerceris forficata* Evans, 1982**

***Cerceris forficata*** Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [328]. Type data: holotype, SAMA \*F. adult, from New Kalamurina Station, Warburton River, S.A.

Distribution: Lake Eyre basin, S.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris froggatti* Turner, 1912**

***Cerceris froggatti*** Turner, R.E. (1912). A revision of the Australian species of the genus *Cerceris*. (Hymenoptera.).

*Proc. Linn. Soc. N.S.W.* **36**: 644–678 [668]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Rockhampton, Qld.

Distribution: NE coastal, Murray-Darling basin, Qld., (N.S.W.). Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Tsuneki, K. (1968). On some *Cerceris* from Australia, with a tentative key to the Australian species (Hymenoptera, Sphecidae). *Etizenia* **28**: 1–32 (description of male possibly belonging to this species); Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 (redescription, distribution); Evans, H.E. & Hook, A.W. (1982). Communal nesting in Australian *Cerceris* Digger Wasps. pp. 159–163 in Breed, M.D., Michener, C.D. & Evans, H.E. (eds.) (1982). *The Biology of Social Insects*. Proceedings of the Ninth Congress of the International Union for the Study of Social Insects, Boulder, Colorado, August 1982. Boulder, : Westview Press (biology).

*Cerceris gilberti* Turner, 1916

*Cerceris gilberti* Turner, R.E. (1916). Notes on fossorial Hymenoptera. XXIII. *Ann. Mag. Nat. Hist.* (8) **18**: 277–288 [277]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, SE coastal, Murray Darling basin, S Gulfs, N coastal, Qld., N.S.W., Vic., S.A., W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380.

*Cerceris gilesi* Turner, 1910

*Cerceris gilesi* Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253–356 [346 pl 32 fig 13]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Claremont, W.A.

Distribution: SW coastal, W.A.; only published localities Claremont and Yallingup. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Turner, R.E. (1912). A revision of the Australian species of the genus *Cerceris*. (Hymenoptera.). *Proc. Linn. Soc. N.S.W.* **36**: 644–678 (redescription).

*Cerceris goddardi* Cockerell, 1930

*Cerceris goddardi* Cockerell, T.D.A. (1930). Wasps of the genus *Cerceris* in the Queensland Museum. *Mem. Qd. Mus.* **10**: 32–36 [33]. Type data: holotype, QM T4015 \*F. adult, from Dunk Is., Qld.

*Cerceris venusta* Auctorum [*non Cerceris venusta* Smith, 1873]; for explanation see Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 (351)].

*Cerceris insulicola* Tsuneki, K. (1968). On some *Cerceris* from Australia, with a tentative key to the Australian species (Hymenoptera, Sphecidae). *Etizenia* **28**: 1–32 [27]. Type data: syntypes (probable), USNM \*M. adult, from Prince of Wales Is., Qld.

Taxonomic decision of Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [351].

Distribution: NE coastal, SE coastal, N coastal, Qld., N.S.W., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. & Hook, A.W. (1982). Communal nesting in Australian *Cerceris* Digger Wasps. pp. 159–163 in Breed, M.D., Michener, C.D. & Evans, H.E. (eds.) (1982). *The Biology of Social Insects*. Proceedings of the Ninth Congress of the International Union for the Study of Social Insects, Boulder, Colorado, August 1982. Boulder : Westview Press (biology).

*Cerceris hackeriana* Cockerell, 1930

*Cerceris hackeriana* Cockerell, T.D.A. (1930). Wasps of the genus *Cerceris* in the Queensland Museum. *Mem. Qd. Mus.* **10**: 32–36 [32]. Type data: holotype, QM T4014 \*F. adult, from Tooloom, N.S.W.

Distribution: SE coastal, Qld., N.S.W.; only published localities Mt. Tamborine, Kangaroo Valley, Upper Allyn River, Tooloom and Ebor. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 (redescription, distribution).

*Cerceris inexpectata* Turner, 1908

*Cerceris inexpectata* Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 [469 pl xxvi fig 5]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

Distribution: NE coastal, Qld.; only published localities Mackay, Townsville, Mareeba and Cairns. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Turner, R.E. (1912). A revision of the Australian species of the genus *Cerceris*. (Hymenoptera.). *Proc. Linn. Soc. N.S.W.* **36**: 644–678 (description of male); Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380.



***Cerceris iridis* Evans, 1982**

***Cerceris iridis*** Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [339]. Type data: holotype, ANIC \*F. adult, from Dividing Range, 15 km W of Captain Billy Creek, Cape York, Qld.

Distribution: NE coastal, Qld.; only published localities on Cape York. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris labeculata* Turner, 1908**

***Cerceris labeculata*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [470]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, SE coastal, Qld., N.S.W. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 (redescription, distribution).

***Cerceris latiberbis* Tsuneki, 1968**

***Cerceris latiberbis*** Tsuneki, K. (1968). On some *Cerceris* from Australia, with a tentative key to the Australian species (Hymenoptera, Sphecidae). *Etizenia* **28**: 1–32 [19]. Type data: holotype, USNM \*M. adult, from Prince of Wales Is., Qld.

Distribution: NE coastal, Qld.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 (redescription).

***Cerceris listrognatha* Evans, 1982**

***Cerceris listrognatha*** Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [333]. Type data: holotype, NMV \*F. adult, from Claudie River (Cape York), Qld.

Distribution: NE coastal, Murray-Darling basin, Qld., N.S.W. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris luculenta* Evans, 1982**

***Cerceris luculenta*** Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [363]. Type data: holotype, ANIC F. adult, from 27 N Bourke, N.S.W.

Distribution: Murray-Darling basin, N.S.W.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris megacantha* Evans, 1982**

***Cerceris megacantha*** Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [317]. Type data: holotype, QM T8493 \*F. adult, from Blunder Creek, Brisbane, Qld.

Distribution: NE coastal, Qld. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. & Hook, A.W. (1982). Communal nesting in Australian *Cerceris* digger wasps. pp 159–163 in Breed, M.D., Michener, C.D. & Evans, H.E. (eds.) (1982). *The Biology of Social Insects*. Proceedings of the Ninth Congress of the International Union for the Study of Social Insects, Boulder, Colorado, August 1982. Boulder : Westview Press (biology).

***Cerceris merredinensis* Turner, 1936**

***Cerceris merredinensis*** Turner, R.E. (1936). Notes on fossorial Hymenoptera. XLV. On new sphegid wasps from Australia. *Ann. Mag. Nat. Hist.* (10) **18**: 533–545 [536]. Type data: holotype, BMNH \*F. adult, from Merredin, W.A.

Distribution: SW coastal, W.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris minuscula* Turner, 1910**

***Cerceris minuscula*** Turner, R.E. (1910). Additions to our knowledge of the fossorial wasps of Australia. *Proc. Zool. Soc. Lond.* **1910**: 253–356 [347]. Type data: syntypes (probable), BMNH \*F,M adult, from Mackay, Qld.,

Distribution: NE coastal, Murray-Darling basin, SE coastal, Lake Eyre basin, SW coastal, N coastal, Qld., N.S.W., A.C.T., Vic., S.A., W.A., N.T.; (subspecies described from Melanesia). Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Tsuneki, K. (1968). On some *Cerceris* from Australia, with a tentative key to the Australian species (Hymenoptera, Sphecidae). *Etizenia* **28**: 1–32 (redescription); Krombein, K.V. (1969). A revision of the Melanesian wasps of the genus *Cerceris* Latr. (Hymenoptera : Sphecidae). *Smithson. Contrib. Zool.* **22**: 1–36 (Melanesian subspecies); Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 (redescription, distribution); Evans, H.E. & Hook, A.W. (1982). Communal nesting in Australian *Cerceris* Digger Wasps. pp. 159–163 in Breed, M.D., Michener, C.D. & Evans, H.E. (eds.) (1982). *The Biology of Social Insects*. Proceedings of the Ninth Congress of the International Union for the Study of Social Insects, Boulder, Colorado, August 1982. Boulder : Westview Press (biology).

***Cerceris multiguttata* Turner, 1908**

***Cerceris multiguttata*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [471]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay to Cairns, Qld.

Distribution: NE coastal, Qld. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Turner, R.E. (1912). A revision of the Australian species of the genus *Cerceris*. (Hymenoptera.). *Proc. Linn. Soc. N.S.W.* **36**: 644–678 (description of male); Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 (redescription, distribution).

***Cerceris opposita* Smith, 1873**

***Cerceris opposita*** Smith, F. (1873). Descriptions of new species of fossorial Hymenoptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (4) **12**: 291–300, 402–415 [413]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Lower Plenty, Vic.

Distribution: NE coastal, Murray-Darling basin, SE coastal, Qld., N.S.W., A.C.T., Vic. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Coleoptera (Chrysomelidae). Biological references: Turner, R.E. (1912). A revision of the Australian species of the genus *Cerceris*. (Hymenoptera.). *Proc. Linn. Soc. N.S.W.* **36**: 644–678 (description of male); Evans, H.E. & Matthews, R.W. (1970). Notes on the nests and prey of Australian wasps of the genus *Cerceris* (Hymenoptera : Sphecidae). *J. Aust. Entomol. Soc.* **9**: 153–156 (nest, prey); Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 (redescription, distribution).

***Cerceris osculata* Evans, 1982**

***Cerceris osculata*** Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [361]. Type data: holotype, ANIC F. adult, from 35 mi S Nappamerry, Qld.

Distribution: Lake Eyre basin, Murray-Darling basin, Qld.; only published localities near Nappamerry and Cunnamulla. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris perkinsi* Turner, 1910**

***Cerceris perkinsi*** Turner, R.E. (1910). New fossorial Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.* **1910**: 407–429 [423 pl 50 fig 12]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Cairns, Qld.

Distribution: NE coastal, Murray-Darling basin, Lake Eyre basin, N coastal, Qld., N.S.W., S.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Turner, R.E. (1912). A revision of the Australian species of the genus *Cerceris*. (Hymenoptera.). *Proc. Linn. Soc. N.S.W.* **36**: 644–678 (redescription); Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 (redescription, distribution).

***Cerceris praedura* Turner, 1908**

***Cerceris praedura*** Turner, R.E. (1908). Notes on the Australian fossorial wasps of the family Sphegidae, with descriptions of new species. *Proc. Zool. Soc. Lond.* **1908**: 457–535 pl xxvi [472]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Mackay, Qld.

***Cerceris koala*** Tsuneki, K. (1968). On some *Cerceris* from Australia, with a tentative key to the Australian species (Hymenoptera, Sphecidae). *Etizenia* **28**: 1–32 [17]. Type data: holotype, USNM \*F. adult, from Prince of Wales Is., Qld.

Taxonomic decision of Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [372].

Distribution: NE coastal, Qld. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Turner, R.E. (1912). A revision of the Australian species of the genus *Cerceris*. (Hymenoptera.). *Proc. Linn. Soc. N.S.W.* **36**: 644–678 (redescription).

***Cerceris raymenti* Turner, 1936**

***Cerceris raymenti*** Turner, R.E. (1936). Notes on fossorial Hymenoptera. XLV. On new sphegid wasps from Australia. *Ann. Mag. Nat. Hist.* (10) **18**: 533–545 [537]. Type data: holotype, BMNH \*F. adult, from Gunbower Is., Murray River, Vic.

Distribution: Murray-Darling basin, S Gulfs, Qld., N.S.W., Vic., S.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 (redescription, distribution).

***Cerceris ropalidioides* Evans, 1982**

***Cerceris ropalidioides*** Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [336]. Type data: holotype, ANIC F. adult, from Mt. Molloy, Qld.

Distribution: NE coastal, Qld.; only published localities Mt. Molloy and Mareeba. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris sedula* Evans, 1982**

***Cerceris sedula*** Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [320]. Type data: holotype, ANIC F. adult, from Wyperfeld Natl. Park, Vic.

Distribution: Murray-Darling basin, Vic., S.A.; only published localities Wyperfeld National Park, Yaapeet, near Ouyen and near Swan Reach. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris siccata* Evans, 1982**

***Cerceris siccata*** Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [355]. Type data: holotype, ANIC F. adult, from Packsaddle, 179 km N of Broken Hill, N.S.W.

Distribution: Murray-Darling basin, Lake Eyre basin, N.S.W., Vic., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris spilota* Evans, 1982**

***Cerceris spilota*** Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 [374]. Type data: holotype, ANIC F. adult, from Clifton Downs, N.S.W.

Distribution: Murray-Darling basin, Lake Eyre basin, N.S.W., S.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris spinipleuris* Turner, 1918**

***Cerceris varipes*** Smith, F. (1873). Descriptions of new species of fossorial Hymenoptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (4) **12**: 291–300, 402–415 [413] [*non Cerceris varipes* Smith, 1858]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Adelaide, S.A.

***Cerceris spinipleuris*** Turner, R.E. (1918). Notes on fossorial Hymenoptera. XXXII. On new species in the British Museum. *Ann. Mag. Nat. Hist.* (9) **1**: 86–96 [91] [*nom. nov.* for *Cerceris varipes* Smith 1873].

Distribution: S Gulfs, S.A.; type locality only. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Turner, R.E. (1912). A revision of the Australian species of the genus *Cerceris*. (Hymenoptera.). *Proc. Linn. Soc. N.S.W.* **36**: 644–678 (redescription); Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 (redescription).

***Cerceris trifida* Evans, 1982**

***Cerceris trifida*** Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans.*

*Am. Entomol. Soc.* **107**: 299–380 [375]. Type data: holotype, ANIC F. adult, from 30 (mi) S Cunnamulla, Qld.

Distribution: Murray-Darling basin, Lake Eyre basin, Qld., N.S.W., Vic., S.A., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing.

***Cerceris unispinosa* Turner, 1917**

***Cerceris unispinosa*** Turner, R.E. (1917). Notes on fossorial Hymenoptera. XXV. On new Sphecoidea in the British Museum. *Ann. Mag. Nat. Hist.* (8) **19**: 104–113 [105]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Darra, Qld.

Distribution: NE coastal, Qld.; only published localities Darra, Brisbane and Tamborine. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380 (redescription, distribution); Evans, H.E. & Hook, A.W. (1982). Communal nesting in Australian *Cerceris* Digger Wasps. pp. 159–163 in Breed, M.D., Michener, C.D. & Evans, H.E. (eds.) (1982). *The Biology of Social Insects*. Proceedings of the Ninth Congress of the International Union for the Study of Social Insects, Boulder, Colorado, August 1982. Boulder : Westview Press (biology).

***Cerceris venusta* Smith, 1873**

***Cerceris venusta*** Smith, F. (1873). Descriptions of new species of fossorial Hymenoptera in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (4) **12**: 291–300, 402–415 [413]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Qld.

Distribution: NE coastal, N Gulf, Qld., N.S.W., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing; prey adult Coleoptera (Scarabaeidae). Biological references: Turner, R.E. (1912). A revision of the Australian species of the genus *Cerceris*. (Hymenoptera.). *Proc. Linn. Soc. N.S.W.* **36**: 644–678 (description of male); Krombein, K.V. (1969). A revision of the Melanesian wasps of the genus *Cerceris* Latr. (Hymenoptera : Sphecidae). *Smithson. Contrib. Zool.* **22**: 1–36 (Melanesian subspecies); Krombein, K.V. (1973). Systematic and distributional notes on Melanesian *Cerceris* (Hymenoptera : Sphecidae). *Proc. Entomol. Soc. Wash.* **75**: 464–467 (prey); Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299–380.

***Cerceris victrix* Turner, 1910**

***Cerceris victrix*** Turner, R.E. (1910). New fossorial Hymenoptera from Australia. *Trans. Entomol. Soc. Lond.*



1910: 407-429 pl 50 [422 pl 50 fig 10]. Type data: holotype, BMNH \*F. adult (seen 1929 by L.F. Graham), from Moreton Bay, Qld.

Distribution: NE coastal, Qld.; only published localities Moreton Bay and Cairns. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 229-380 (redescription).

***Cerceris windorum* Tsuneki, 1968**

*Cerceris windorum* Tsuneki, K. (1968). On some *Cerceris* from Australia, with a tentative key to the Australian species (Hymenoptera, Sphecidae). *Etizenia* **28**: 1-32 [20]. Type data: holotype, USNM \*F. adult, from Prince of Wales Is., Qld.

Distribution: NE coastal, Murray-Darling basin, Lake Eyre basin, Qld., N.T. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. & Mathews, R.W. (1970). Notes on the nests and prey of Australian wasps of the genus *Cerceris* (Hymenoptera : Sphecidae). *J. Aust. Entomol. Soc.* **9**: 153-156 (biology, as *Cerceris minuscula*); Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 229-380 (redescription, distribution).

***Cerceris xanthura* Evans, 1982**

*Cerceris xanthura* Evans, H.E. (1982). The genus *Cerceris* in eastern Australia (Hymenoptera : Sphecidae). *Trans. Am. Entomol. Soc.* **107**: 299-380 [345]. Type data: holotype, QM T8490 \*F. adult, from Blunder Creek, Brisbane, Qld.

Distribution: NE coastal, Bulloo River basin, Lake Eyre basin, Murray-Darling basin, N Gulf, Qld., N.S.W., Vic., S.A. Ecology: larva - sedentary, soil, predator : adult - volant, burrowing. Biological references: Evans, H.E. & Hook, A.W. (1982). Communal nesting in Australian *Cerceris* digger wasps. pp. 159-163 in Breed, M.D., Michener, C.D. & Evans, H.E. (eds.) (1982). *The Biology of Social Insects*. Proceedings of the Ninth Congress of the International Union for the Study of Social Insects, Boulder, Colorado, August 1982. Boulder : Westview Press (biology).

***Incertae sedis***

*Alyson tomentosum* Macleay, W.S. (1826). Annulosa. Catalogue of insects, collected by Captain King, R.N. pp. 438-469 in King, P.P. *Narrative of a Survey of the Inter-tropical and Western Coasts of Australia Performed between the Years 1818 and 1822*. London : John Murray Vol. 2 [457] [the identity of this species is unknown]. Type data: syntypes (probable), whereabouts unknown, from Australia (round coast).

# APPENDIX I

## ABBREVIATIONS AND SYMBOLS

For definitions of nomenclatural terms which appear throughout the *Catalogue*, the reader should refer to the text and glossary of the 1961 edn. of the International Code of Zoological Nomenclature.

A.C.T	Australian Capital Territory
alt.	altitude
Art.	Article
E	east, eastern
ed./eds.	editor/editors
edn.	edition
emend.	emendation
F.	female
fasc.	fascicule
fig./figs	figure/figures
ft	feet
ICZN	International Code of Zoological Nomenclature
Is./Ils.	Island/Islands
km	kilometre
livr.	livraison
m	metre
M.	male
mi	mile
ms	manuscript
Mt./Mts.	Mount, Mountain/Mountains
N	north, northern
Nat.	Natural
Natl.	National
no.	number
<i>nom. nov.</i>	<i>nomen novum</i>
<i>nom. nud.</i>	<i>nomen nudum</i>
<i>ns</i>	new series
N.S.W.	New South Wales
N.T.	Northern Territory
pl/pls	plate/plates
<i>pro</i>	for
pt/pts	part/parts
Qd./Qld.	Queensland
S	south, southern
S.A.	South Australia
ser.	series
sp.	species
Tas./Tasm.	Tasmania
var./Var.	variety
Vic./Vict.	Victoria
vol./Vol.	volume
W	west, western
W	worker in the Formicidae, with reference to type specimen(s)
W.A.	Western Australia
[ <i>name</i> ]	square brackets enclosing a valid or available name indicate a qualification of the use of that name in the context in which it appears.
*	appears only with reference to type specimen information and indicates that the author has not seen the specimen(s).

# APPENDIX II

## MUSEUM ACRONYMS

AM	Australian Museum, Sydney, N.S.W., Australia
ANIC	Australian National Insect Collection, CSIRO Div. of Entomology, Canberra, A.C.T., Australia
BIE	Instituto di Entomologia, Bologna, Italy
BMNH	British Museum (Natural History) London, U.K
BPBM	Bernice P. Bishop Museum, Honolulu, Hawaii, U.S.A
CAS	California Academy of Sciences, San Francisco, Calif., U.S.A
DARI	Insect Collection, Dept. of Agriculture, Rydalmere, N.S.W., Australia
DEIB	Deutsch Entomologie Institute di Berlin, Federal Republic of Germany
ETHZ	Eidgenössische Technische Hochschule, Zürich, Switzerland
GMNH	Museum d'Histoire Naturelle, Genève, Switzerland
LS	Linnaean Society, London, U.K.
MCG	Museo Civico di Storia Natural "Giacomo Doria", Genoa, Italy
MCZ	Museum of Comparative Zoology, Harvard Univ., Cambridge, Mass., U.S.A.
MGH	Museum Godeffroy, Hamburg, Federal Republic of Germany
MNH	Musei Nationalis Hungarici, Budapest, Hungary
MNHP	Museum National d'Histoire Naturelle, Paris, France
MZUT	Museo Zoologia, Universita, Torino, Italy
NHMW	Naturhistorisches Museum, Wien, Austria
NHRM	Naturhistoriske Riksmuseum, Stockholm, Sweden
NMV	Museum of Victoria, Melbourne, Vic., Australia
OUM	Oxford University Museum, Oxford, U.K.
QM	Queensland Museum, Fortitude Valley, Qld., Australia
RIB	Institut Royal de Sciences Naturelle de Belgique, Bruxelles, Belgium
RMNH	Rijksmuseum van Natuurlijke Historie, Leiden, Netherlands
SAMA	South Australia Museum, Adelaide, S.A., Australia
SMNS	Städtliches Museum für Naturkunde, Stuttgart, Federal Republic of Germany
UCDC	University of California, Davis, Calif., U.S.A.
USNM	United States National Museum, Washington, D.C., U.S.A.
UZM	Universitetets Kobenhaven, Denmark
WAM	Western Australia Museum, Perth, W.A., Australia
ZMA	Universiteit van Amsterdam, Netherlands
ZMB	Museum für Naturkunde an der Universitaet Humbolt zu Berlin, German Democratic Republic
ZMH	Zoologische Museum für Hamburg, Federal Republic of Germany
ZSM	Zoologisches Sammlung des Bayerischen Staates, München, Federal Republic of Germany



# TAXONOMIC INDEX

## FORMICOIDEA

- abdominalis, *Podomyrma* 80  
 abdominalis pulchra, *Podomyrma* 80  
 aberrans, *Amblyopone* 18  
 aberrans, *Cerapachys* 23  
 aberrans formosa, *Myrmecia* (*Promyrmecia*) 12  
 aberrans haematosticta, *Myrmecia* (*Promyrmecia*) 12  
 aberrans maura, *Myrmecia* (*Promyrmecia*) 12  
 aberrans, *Myrmecia* 6  
 aberrans, *Phyracaces* 23  
 aberrans sericata, *Myrmecia* (*Promyrmecia*) 10  
 aberrans taylori, *Myrmecia* (*Promyrmecia*) 10  
 abruptus, *Prolasius* 142  
 abstinens abstinens, *Mayriella* 65  
 abstinens hackeri, *Mayriella* 65  
 abstinens, *Mayriella* 65  
 abstinens, *Mayriella abstinens* 65  
 abstinens venustula, *Mayriella* 66  
*Acanthoclinea* 92  
*Acantholepis* (*Acrostigma*) *australis* 145  
*Acantholepis* (*Acrostigma*) *bosii* 145  
*Acantholepis* (*Acrostigma*) *clivispina* 146  
*Acantholepis* (*Acrostigma*) *froggatti* 146  
*Acantholepis* *kirbii* 95  
*Acantholepis* *mamillatus* 102  
*Acantholepis* (*Stigmacros*) *aemula* 145  
*Acantholepis* (*Stigmacros*) *aemula intacta* 147  
*Acantholepis* (*Stigmacros*) *foreli* 146  
*Acantholepis* (*Stigmacros*) *fossulata* 146  
*Acantholepis* (*Stigmacros*) *medioreticulata* 147  
*Acantholepis* (*Stigmacros*) *occidentalis* 147  
*Acantholepis* (*Stigmacros*) *pilosella* 147  
*Acantholepis* *tuberculatus* 101  
*Acanthoponera* (*Anacanthoponera*) *imbellis scabra* 30  
*Acanthoponera* (*Anacanthoponera*) *leae* 30  
*Acanthoponera* *imbellis* 30  
*(Acanthoponera)* *imbellis hilare*, *Ectatomma* 30  
*Acanthoponera* *nigra* 30  
*Acanthoponera* *occidentalis* 30  
*aciculata*, *Ectatomma* 40  
*aciculata*, *Rhytidoponera* 40  
*aciculata*, *Stigmacros* 145  
*aciculata*, *Stigmacros* (*Cyrtostigmacros*) 145  
*Acropyga* 2, 107  
*Acropyga* *indistincta* 107  
*Acropyga* *moluccana* 107  
*Acropyga* *moluccana australis* 107  
*Acropyga* *myops* 107  
*Acrostigma* 144  
*(Acrostigma)* *australis*, *Acantholepis* 145  
*(Acrostigma)* *bosii*, *Acantholepis* 145  
*(Acrostigma)* *clivispina*, *Acantholepis* 146  
*(Acrostigma)* *froggatti*, *Acantholepis* 146  
*acuminata*, *Notoncus foreli* 125  
*acuta*, *Stigmacros* 145  
*acuta*, *Stigmacros* (*Stigmacros*) 145  
*acuticostata*, *Bothroponera excavata* 21  
*acuticostata*, *Ponera* (*Bothroponera*) *excavata* 21  
*acutidens*, *Odontomachus ruficeps* 36  
*adami*, *Camponotus* 109  
*adamus*, *Cerapachys* 24  
*adamus*, *Cerapachys* (*Phyracaces*) 24  
*adelaidae* *adelaidae*, *Podomyrma* 80  
*adelaidae* *brevidentata*, *Podomyrma* 80  
*adelaidae*, *Myrmica* 80  
*adelaidae* *obscurior*, *Podomyrma* 80  
*adelaidae*, *Podomyrma* 80  
*adelaidae*, *Podomyrma* *adelaidae* 80  
*adlerzi*, *Leptogenys conigera* 33  
*adlerzi*, *Leptogenys* (*Lobopelta*) *conigera* 33  
*Adlerzia* 2, 53  
*Adlerzia froggatti* 53  
*(Adlerzia)* *froggatti*, *Monomorium* 53  
*adlerzii*, *Prenolepis* 121  
*aegra*, *Polyrhachis* (*Chariomyrma*) *gab* 134  
*aegra*, *Polyrhachis* *gab* 134  
*aemula*, *Acantholepis* (*Stigmacros*) 145  
*aemula intacta*, *Acantholepis* (*Stigmacros*) 147  
*aemula*, *Stigmacros* 145  
*aeneogaster*, *Iridomyrmex discors* 98  
*aeneopilosus* *aeneopilosus*, *Camponotus* 109  
*aeneopilosus*, *Camponotus* 109  
*aeneopilosus*, *Camponotus aeneopilosus* 109  
*aeneopilosus* *flavidopubescens*, *Camponotus* 109  
*aeneovirens*, *Formica* 122  
*aeneovirens*, *Melophorus* 122  
*aeneum*, *Liometopum* 101  
*Aenictus* 2, 52  
*Aenictus aratus* 52  
*Aenictus ceylonicus* 52  
*Aenictus deuqueti* 53  
*Aenictus exiguus* 53  
*Aenictus hilli* 53  
*Aenictus philiporum* 53  
*Aenictus turneri* 52  
*aequalis*, *Bothriomyrmex pusillus* 92  
*aerea*, *Polyrhachis hookeri* 135  
*aeschyle*, *Polyrhachis* 131  
*aeschyle*, *Polyrhachis* (*Hedomyrma*) 131  
*aesopus*, *Camponotus arcuatus* 109  
*aesopus*, *Melophorus turneri* 124  
*affinis australis*, *Pheidologeton* 79  
*affinis*, *Myrmecia* 16  
*afflatus*, *Camponotus* 109  
*afflatus*, *Camponotus* (*Myrmosaga*) 109  
*agilis*, *Formica* 115  
*agilis*, *Iridomyrmex* 96  
*ajax*, *Meranoplus mars* 68  
*albertisi*, *Calomyrmex* 108

- albertisi, Camponotus 108  
 albipes cedarensis, Technomyrmex 106  
 albipes, Formica (Tapinoma) 106  
 albipes, Technomyrmex 3, 106  
 albitarsus, Iridomyrmex 96  
 albopilosus albopilosus, Calomyrmex 108  
 albopilosus, Calomyrmex 108  
 albopilosus, Calomyrmex albopilosus 108  
 albopilosus, Camponotus 108  
 albopilosus wienandsi, Calomyrmex 108  
 albopilosus wienandsi, Camponotus (Calomyrmex) 108  
 alinodis, Colobostruma 59  
 alinodis, Epopostruma 59  
 alligator, Orectognathus 72  
 Amblyopone 2, 18  
 Amblyopone aberrans 18  
 Amblyopone australis 18  
 Amblyopone australis fortis 19  
 Amblyopone australis foveolata 19  
 Amblyopone australis minor 19  
 Amblyopone castaneus 35  
 Amblyopone clarki 19  
 Amblyopone exigua 19  
 Amblyopone ferruginea 19  
 Amblyopone ferruginea longidens 20  
 Amblyopone (Fulakora) gracilis 19  
 Amblyopone (Fulakora) lucida 20  
 Amblyopone (Fulakora) punctulata 20  
 Amblyopone gingivalis 19  
 Amblyopone glauerti 19  
 Amblyopone gracilis 19  
 Amblyopone hackeri 19  
 Amblyopone leae 19  
 Amblyopone longidens 20  
 Amblyopone lucida 20  
 Amblyopone mandibularis 19  
 Amblyopone mercovichii 20  
 Amblyopone michaelsoni 20  
 Amblyopone obscura 18  
 Amblyopone punctulata 20  
 Amblyopone smithi 20  
 Amblyopone wilsoni 20  
 ammon ammon, Polyrrhachis 131  
 ammon angusta, Polyrrhachis 131  
 ammon angustata, Polyrrhachis 131  
 ammon, Formica 131  
 ammon, Polyrrhachis 131  
 ammon, Polyrrhachis ammon 131  
 ammonoeides ammonoeides, Polyrrhachis 131  
 ammonoeides crawleyi, Polyrrhachis 131  
 ammonoeides crawleyi, Polyrrhachis (Hagiomyrma) 131  
 ammonoeides, Polyrrhachis 131  
 ammonoeides, Polyrrhachis ammonoeides 131  
 amperei, Camponotus cinereus 110  
 amperei, Camponotus (Myrmocamelus) cinereus 110  
 ampla ampla, Pheidole 74  
 ampla mackayensis, Pheidole 74  
 ampla norfolkensis, Pheidole 79  
 ampla parallela, Pheidole 79  
 ampla parviceps, Pheidole 74  
 ampla perthensis, Pheidole 75  
 ampla, Pheidole 74  
 ampla, Pheidole ampla 74  
 ampla, Pheidole variabilis 74  
 ampla yarrensii, Pheidole 79  
 amyoti, Formica 149  
 (Anacanthoponera) imbellis scabra, Acanthoponera 30  
 (Anacanthoponera) leae, Acanthoponera 30  
 analis, Myrmecia 6  
 anceps, Formica 96  
 anceps, Iridomyrmex 96  
 anceps, Rhytidoponera 40  
 andrei, Chalcopteromyrmex victoriae 42  
 andromache, Polyrrhachis 136  
 andrynicum, Tetramorium 89  
 anguliceps, Polyrrhachis 131  
 anguliceps, Polyrrhachis (Hedomyrma) 131  
 angusta, Polyrrhachis ammon 131  
 angustata, Polyrrhachis ammon 131  
 angustatus, Cerapachys 24  
 angustatus, Phyracaces 24  
 angusticeps, Leptomyrmex varians 105  
 angusticornis, Dolichoderus 93  
 angusticornis, Dolichoderus (Hypoclinea) 93  
 angustinode, Leptogenys 32  
 angustinode, Leptogenys (Lobopelta) 32  
 Anisopheidole 54  
 Anisopheidole antipodum 54  
 anitae, Leptogenys 32  
 anitae, Leptogenys (Lobopelta) 32  
 annectens, Notoncus gilberti 126  
 Anochetus 20  
 Anochetus armstrongi 20  
 Anochetus graeffei 20  
 Anochetus paripungens 20  
 Anochetus rectangularis 21  
 Anochetus rectangularis diabolus 21  
 Anochetus turneri 21  
 Anochetus turneri latuneii 21  
 Anoplolepis 107  
 Anoplolepis longipes 3, 107  
 antennata, Prolasius 142  
 antennatus howensis, Orectognathus 73  
 antennatus, Orectognathus 72  
 antennatus, Prolasius 142  
 antennatus septentrionalis, Orectognathus 72  
 anthracina anthracina, Pheidole 75  
 anthracina grandii, Pheidole 75  
 anthracina orba, Pheidole 75  
 anthracina, Pheidole 75  
 anthracina, Pheidole anthracina 75  
 anthracina, Stigmacros 145  
 anthracina, Stigmacros (Campostigmacros) 145  
 antipodum, Anisopheidole 54  
 antipodum, Atta 54  
 antipodum, Tetramorium 90  
 antonii, Technomyrmex bicolor 106  
 Aphaenogaster 54  
 Aphaenogaster barbigula 54  
 Aphaenogaster longiceps 54  
 Aphaenogaster (Nystalomyrma) barbigula 54  
 Aphaenogaster poultoni 54  
 Aphaenogaster pythia 55  
 Aphantolepis 106  
 Aphantolepis quadricolor 106  
 appendiculata appendiculata, Polyrrhachis 131  
 appendiculata, Polyrrhachis 131  
 appendiculata, Polyrrhachis appendiculata 131  
 appendiculata schoopae, Polyrrhachis 131  
 araneoides arcuata, Rhytidoponera 40

- araneoides, *Ponera* 40  
 araneoides, *Rhytidoponera* 40  
 aratus, *Aenictus* 52  
 arcadius, *Iridomyrmex* 96  
 arcuata, *Formica* 131  
 arcuata, *Polyrhachis* 131  
 arcuata, *Rhytidoponera araneoides* 40  
 arcuatus *aesopus*, *Camponotus* 109  
 arcuatus *arcuatus*, *Camponotus* 109  
 arcuatus, *Camponotus* 109  
 arcuatus, *Camponotus arcuatus* 109  
 argentosa, *Polyrhachis daemeli* 133  
 armstrongi, *Anochetus* 20  
 armstrongi, *Camponotus* 110  
 armstrongi, *Camponotus* (*Myrmogonia*) 110  
 armstrongi, *Cheloner* 56  
 armstrongi, *Dolichoderus* 93  
 armstrongi, *Dolichoderus* (*Hypoclinea*) 93  
 armstrongi, *Monomorium* (*Holcomyrmex*) 56  
 armstrongi, *Stigmatoceros* 145  
 armstrongi, *Stigmatoceros* (*Cyrtostigmatoceros*) 145  
 arnoldi, *Myrmecia* 6  
 arnoldi, *Rhytidoponera* (*Chalcopterona*) 40  
 asper, *Sphinctomyrmex* 50  
 aspera, *Camponotus cruentatus* 112  
 aspera, *Camponotus* (*Myrmosericus*) *cruentatus* 112  
 aspera, *Ponera metallica* 40  
 aspera, *Rhytidoponera* 40  
 aspera *scabrior*, *Rhytidoponera* (*Chalcopterona*) 48  
 astuta, *Bothropterona* 21  
 astuta, *Pachycondyla* 21  
 atalanta, *Cardiocondyla nuda* 55  
 athertonensis *athertonensis*, *Pheidole* 75  
 athertonensis *cedarensis*, *Pheidole* 75  
 athertonensis, *Myrmecia auriventris* 6  
 athertonensis, *Pheidole* 75  
 athertonensis, *Pheidole athertonensis* 75  
 athertonensis *tambourinensis*, *Pheidole* 75  
 (*Atopogyne*) *eurydice*, *Crematogaster* 61  
 atrata, *Myrmecia* 6  
 atriscapa, *Myrmecia* 6  
*Atta antipodum* 54  
*Atta spinoda* 77  
*Atta vigilans* 79  
 augustulus, *Camponotus* (*Colobopsis*) *fictor* 113  
 augustulus, *Camponotus fictor* 113  
 aurata, *Ponera* (*Ectatomma*) 41  
 aurata, *Rhytidoponera* 41  
 aurea aurea, *Polyrhachis* 131  
 aurea *depilis*, *Polyrhachis* 132  
 aurea, *Polyrhachis* 131  
 aurea, *Polyrhachis aurea* 131  
 aurea, *Polyrhachis guerini* 131  
 aureolus aureolus, *Meranoplus* 66  
 aureolus *doddi*, *Meranoplus* 66  
 aureolus *linae*, *Meranoplus* 66  
 aureolus, *Meranoplus* 66  
 aureolus, *Meranoplus aureolus* 66  
 aureorufa, *Myrmecia mandibularis* 12  
 auriventris *athertonensis*, *Myrmecia* 6  
 auriventris, *Myrmecia* 6  
 aurocincta, *Formica* 110  
 aurocinctus, *Camponotus* 110  
 aurofasciatus, *Camponotus* (*Myrmamblys*) 115  
 australe *colosseensis*, *Diacamma* 29  
 australe, *Diacamma* 29  
 australe *levis*, *Diacamma* 29  
 australe, *Tetramorium* 89  
 australiae, *Polyrhachis connectens* 139  
 australiae, *Polyrhachis relucens* 139  
 australicum, *Monomorium* 70  
 australicum, *Monomorium subcoecum* 70  
 australis, *Acantholepis* (*Acrostigma*) 145  
 australis, *Acropyga moluccana* 107  
 australis, *Amblyopone* 18  
 australis *australis*, *Crematogaster* 60  
 australis *australis*, *Pheidologeton* 79  
 australis *chillagoensis*, *Crematogaster* 60  
 australis *chillagoensis*, *Crematogaster* 60  
 australis, *Colobostruma* 59  
 australis, *Crematogaster* 60  
 australis, *Crematogaster* 60  
 australis, *Crematogaster australis* 60  
 australis, *Dolichoderus* 93  
 australis, *Echinopla* 121  
 australis *edentata*, *Syscia* 24  
 australis, *Eurhopalothrix* 64  
 australis, *Formica* 29  
 australis *fortis*, *Amblyopone* 19  
 australis *foveolata*, *Amblyopone* 19  
 australis, *Leptothorax* 65  
 australis, *Leptothorax* (*Goniothorax*) 65  
 australis, *Lioponera longitarsus* 26  
 australis, *Mesoponera* 35  
 australis *minor*, *Amblyopone* 19  
 australis *mjobergi*, *Pheidologeton* 79  
 australis, *Pheidologeton* 79  
 australis, *Pheidologeton affinis* 79  
 australis, *Pheidologeton australis* 79  
 australis, *Platythyrea pusilla* 37  
 australis, *Polyrhachis* 137  
 australis, *Ponera melanaria* 35  
 australis, *Pseudolasius* 144  
 australis, *Stigmatoceros* 145  
 australis, *Strumigenys szalayi* 88  
 australis *sycites*, *Crematogaster* 60  
 australis *sycites*, *Crematogaster* 60  
 australis, *Syscia* 24  
 australis, *Triglyphothrix* (*Xiphomyrmex*) *striatidens* 91  
 azureus, *Iridomyrmex bicknelli* 96  
 bagoti, *Melophorus* 122  
 ballaratensis, *Iridomyrmex itinerans* 100  
 barbata, *Bothropterona* 21  
 barbata, *Myrmecia* (*Promyrmecia*) *fulvipes* 10  
 barbata, *Pachycondyla* (*Bothropterona*) 21  
 barbigula, *Aphaenogaster* 54  
 barbigula, *Aphaenogaster* (*Nystalomyrma*) 54  
 bardus, *Camponotus walkeri* 121  
 barnardi, *Polyrhachis* 132  
 barnardi, *Polyrhachis* (*Myrmhopla*) 132  
 barnardi, *Rhytidoponera* 41  
 barretti, *Meranoplus* 66  
 barretti, *Monomorium fraterculus* 70  
 barretti, *Monomorium* (*Lampromyrmex*) *fraterculus* 70  
 barretti, *Polyrhachis* 132  
 barretti, *Polyrhachis* (*Hedomyrma*) 132  
 barretti, *Rhytidoponera* 41  
 barretti, *Stigmatoceros* 145



- basalis, *Podomyrma* 80  
 basirufa, *Myrmecia vindex* 17  
 basirufus, *Leptomyrmech erythrocephalus* 103  
 baucis, *Pheidole bos* 75  
 bedoti, *Polyrhachis* 132  
 belisaria, *Solenopsis* 86  
 belisarius, *Solenopsis* 86  
 bellicosa, *Polyrhachis* 132  
 bellicosus, *Camponotus intrepidus* 115  
 bellicosus, *Polyrhachis* 132  
 Belonopelta darwini 52  
 bendigensis, *Camponotus suffusus* 120  
 bicarinata, *Myrmica* 89  
 bicarinatum, *Tetramorium* 89  
 bicknelli azureus, *Iridomyrmex* 96  
 bicknelli bicknelli, *Iridomyrmex* 96  
 bicknelli brunneus, *Iridomyrmex* 96  
 bicknelli, *Iridomyrmex* 96  
 bicknelli, *Iridomyrmex bicknelli* 96  
 bicknelli lutea, *Iridomyrmex* 96  
 bicknelli splendidus, *Iridomyrmex* 96  
 bicolor antonii, *Technomyrmex* 106  
 bicolor, *Cerapachys* 24  
 bicolor, *Eubothronera* 38  
 bicolor, *Phyracaces* 24  
 bicolor, *Technomyrmex* 106  
 biconvexus, *Iridomyrmex* 96  
 bicorne, *Monomorium* 56  
 bicornis, *Chelaner* 56  
 bidens, *Discothyrea* 29  
 bidentata, *Leptogenys* 32  
 bidentata, *Leptogenys (Lobopelta)* 32  
 bidentata, *Turneria* 107  
 bidentata, *Turnesia* 107  
 bigenus, *Camponotus* 110  
 bigenus, *Camponotus (Myrmocamelus)* 110  
 bimaculata brevidentata, *Podomyrma* 80  
 bimaculata obscurior, *Podomyrma* 80  
 bimaculata, *Podomyrma* 80  
 bimaculatus, *Opisthopsis pictus* 128  
 binodis, *Cerapachys* 24  
 binodis, *Cerapachys (Phyracaces)* 24  
 biroi, *Gnamptogenys* 30  
 biroi, *Melophorus* 122  
 biroi, *Stictoponera* 30  
 bispinosa, *Froggattella kirbii* 95  
 bispinosa, *Froggattella kirbyi* 95  
 bispinosa, *Podomyrma* 80  
 bogischi, *Chelaner subapterus* 59  
 bogischi, *Monomorium subapterum* 59  
 bombalensis, *Pheidole proxima* 77  
 borealis, *Rhytidoponera* 41  
 borealis, *Rhytidoponera (ChalcoPONera)* numeensis 41  
 bos baucis, *Pheidole* 75  
 bos bos, *Pheidole* 75  
 bos eubos, *Pheidole* 75  
 bos, *Pheidole* 75  
 bos, *Pheidole bos* 75  
 bosii, *Acantholepis (Acrostigma)* 145  
 bosii, *Stigmatros* 145  
 Bothriomyrmex 2, 92  
 Bothriomyrmex flavus 92  
 Bothriomyrmex pusillus 92  
 Bothriomyrmex pusillus aequalis 92  
 Bothriomyrmex pusillus pusillus 92  
 Bothriomyrmex scissor 92  
 Bothriomyrmex wilsoni 92  
 Bothronera 21  
 Bothronera astuta 21  
 Bothronera barbata 21  
 (Bothronera) barbata, *Pachycondyla* 21  
 Bothronera denticulata 21  
 Bothronera dubitata 21  
 (Bothronera) dubitata, *Ponera* 21  
 Bothronera excavata 21  
 Bothronera excavata acuticostata 21  
 (Bothronera) excavata acuticostata, *Ponera* 21  
 Bothronera excavata excavata 21  
 Bothronera mayri 22  
 Bothronera piliventris 22  
 Bothronera piliventris intermedia 22  
 (Bothronera) piliventris intermedia, *Ponera* 22  
 Bothronera piliventris piliventris 22  
 Bothronera piliventris regularis 22  
 (Bothronera) piliventris regularis, *Pachycondyla* 22  
 Bothronera porcata 22  
 (Bothronera) porcata, *Ponera* 22  
 Bothronera sublaevis 22  
 Bothronera sublaevis kurandensis 22  
 (Bothronera) sublaevis kurandensis, *Pachycondyla* 22  
 Bothronera sublaevis murina 22  
 (Bothronera) sublaevis murina, *Pachycondyla* 22  
 Bothronera sublaevis reticulata 22  
 (Bothronera) sublaevis reticulata, *Ponera* 22  
 Bothronera sublaevis rubicunda 22  
 Bothronera sublaevis sublaevis 22  
 (Bothronera) tasmaniensis, *Pachycondyla* 38  
 Brachyponera 23  
 Brachyponera croceicornis 23  
 Brachyponera lutea 23  
 Brachyponera lutea clara 23  
 (Brachyponera) lutea clara, *Euponera* 23  
 Brachyponera lutea lutea 23  
 (Brachyponera) luteipes croceicornis, *Euponera* 23  
 (Brachyponera) luteipes inops, *Euponera* 23  
 (Brachyponera) rufonigra, *Euponera* 52  
 brachytera, *Stigmatros* 145  
 brachytera, *Stigmatros (Campostigmatros)* 145  
 braueri braueri, *Paratrechina* 129  
 braueri glabrior, *Paratrechina* 129  
 braueri glabrior, *Prenolepis* 129  
 braueri, *Paratrechina* 129  
 braueri, *Paratrechina braueri* 129  
 braueri, *Prenolepis* 129  
 brevicollis, *Cerapachys* 24  
 brevicollis, *Phyracaces* 24  
 brevicornis, *Pheidole* 75  
 brevidentata, *Podomyrma adelaidae* 80  
 brevidentata, *Podomyrma bimaculata* 80  
 brevinoda, *Myrmecia* 6  
 brevinoda, *Myrmecia forficata* 6  
 brevior, *Rhytidoponera cerastes* 48  
 brevis, *Cerapachys* 24  
 brevis, *Phyracaces* 24  
 brevispina, *Stigmatros* 145  
 brevispina, *Stigmatros (Stigmatros)* 145  
 brooksi, *Stigmatros* 145  
 brooksi, *Stigmatros (Cyrtostigmatros)* 145  
 broomense, *Monomorium* 70  
 broomense, *Monomorium (Mitara)* laeve 70

- broomense, *Tapinoma minutum* 106  
 broomensis, *Cremastogaster laeviceps* 61  
 broomensis, *Crematogaster laeviceps* 61  
 broomensis, *Tapinoma minutum* 106  
 browni, *Mesostruma* 69  
 brunea, *Melophorus* (*Melophorus*) 122  
 brunea, *Prolasius* 142  
 bruneus, *Melophorus* 122  
 bruneus, *Prolasius* 142  
 brunnea, *Chalcoconera* 41  
 brunneiceps, *Leptomyrmech erythrocephalus* 103  
 brunneus, *Iridomyrmex bicknelli* 96  
 brunnicornis, *Eusphinctus* (*Nothosphinctus*) 50  
 brunnipes, *Eubothroponera* 37  
 brunnipes, *Platythyrea* 37
- caeciliae, *Rhytidoponera* (*Chalcoconera*) 45  
 caelatinoda, *Myrmecia* (*Promyrmecia*) *fulvipes* 12  
 cairnsiana, *Pheidole* 76  
 cairnsiana, *Pheidole javana* 76  
 callima, *Myrmecia* 7  
 callima, *Promyrmecia* 7  
*Calomyrmex* 108  
*Calomyrmex albertisi* 108  
*Calomyrmex albopilosus* 108  
*Calomyrmex albopilosus albopilosus* 108  
*Calomyrmex albopilosus wienandsi* 108  
*(Calomyrmex) albopilosus wienandsi, Camponotus* 108  
*Calomyrmex glauerti* 108  
*Calomyrmex impavidus* 108  
*Calomyrmex purpureus* 108  
*Calomyrmex purpureus purpureus* 108  
*Calomyrmex purpureus smaragdina* 108  
*Calomyrmex similis* 108  
*Calomyrmex splendidus* 108  
*Calomyrmex splendidus mutans* 108  
*(Calomyrmex) splendidus mutans, Camponotus* 108  
*Calomyrmex splendidus splendidus* 108  
*Calomyrmex splendidus viridiventris* 109  
*caloratus, Camponotus (Colobopsis) gasseri* 114  
*caloratus, Camponotus gasseri* 114  
*Calyptomyrmex* 55  
*Calyptomyrmex schraderi* 55  
*cameratus, Camponotus* 110  
*cameratus, Camponotus (Myrmogonia)* 110  
*camillae, Mystrum* 35  
*(Campomyrma) flavibasis, Polyrhachis* 133  
*(Campomyrma) gravis, Polyrhachis* 134  
*(Campomyrma) hirsuta quinqueidentata, Polyrhachis* 135  
*(Campomyrma) leae cedarensis, Polyrhachis* 137  
*(Campomyrma) longipes, Polyrhachis* 137  
*(Campomyrma) patiens, Polyrhachis* 138  
*(Campomyrma) polymnia maculata, Polyrhachis* 138  
*(Campomyrma) prometheus, Polyrhachis* 138  
*(Campomyrma) sidnica perthensis, Polyrhachis* 140  
*(Campomyrma) sidnica tambourinensis, Polyrhachis* 140  
*(Campomyrma) thalia io, Polyrhachis* 141  
*(Campomyrma) zimmerae, Polyrhachis* 141  
*Camponotus* 1, 109  
*Camponotus adami* 109  
*Camponotus aeneopilosus* 109  
*Camponotus aeneopilosus aeneopilosus* 109  
*Camponotus aeneopilosus flavidopubescens* 109  
*Camponotus afflatus* 109  
*Camponotus albertisi* 108  
*Camponotus albopilosus* 108  
*Camponotus arcuatus* 109  
*Camponotus arcuatus aesopus* 109  
*Camponotus arcuatus arcuatus* 109  
*Camponotus armstrongi* 110  
*Camponotus aurocinctus* 110  
*Camponotus bigenus* 110  
*Camponotus (Calomyrmex) albopilosus wienandsi* 108  
*Camponotus (Calomyrmex) splendidus mutans* 108  
*Camponotus cameratus* 110  
*Camponotus capito* 110  
*Camponotus capito capito* 110  
*Camponotus capito ebeninithorax* 110  
*Camponotus carazzii* 126  
*Camponotus ceriseipes* 110  
*Camponotus chalcoides* 110  
*Camponotus chalcus* 110  
*Camponotus cinereus* 110  
*Camponotus cinereus amperei* 110  
*Camponotus cinereus cinereus* 110  
*Camponotus cinereus notterae* 111  
*Camponotus claripes* 111  
*Camponotus claripes claripes* 111  
*Camponotus claripes claripes* 111  
*Camponotus claripes inverallensis* 111  
*Camponotus claripes marcens* 111  
*Camponotus claripes minimus* 111  
*Camponotus claripes nudimalis* 111  
*Camponotus claripes orbiculatopunctatus* 111  
*Camponotus claripes piperatus* 111  
*Camponotus (Colobopsis) ficator* 113  
*Camponotus (Colobopsis) ficator augustulus* 113  
*Camponotus (Colobopsis) gasseri caloratus* 114  
*Camponotus (Colobopsis) gasseri lysias* 114  
*Camponotus (Colobopsis) gasseri obtusitruncatus* 114  
*Camponotus (Colobopsis) howensis* 115  
*Camponotus (Colobopsis) sanguinifrons* 118  
*Camponotus consecrator* 111  
*Camponotus consobrinus* 111  
*Camponotus cowlei* 112  
*Camponotus crenatus* 112  
*Camponotus cruentatus* 112  
*Camponotus cruentatus aspera* 112  
*Camponotus denticulatus* 112  
*Camponotus dimidiatus* 112  
*Camponotus (Dinomyrmex) rufus* 118  
*Camponotus (Dinomyrmex) simulator* 119  
*Camponotus (Dinomyrmex) spinatars* 119  
*Camponotus (Dinomyrmex) subnitidus longinodis* 119  
*Camponotus discors* 112  
*Camponotus discors discors* 112  
*Camponotus discors discors yarrabahensis* 112  
*Camponotus dorycus* 112  
*Camponotus dorycus confusus* 112  
*Camponotus dromas* 112  
*Camponotus ectatommoides* 125  
*Camponotus emeryi* 133  
*Camponotus ephippium* 112  
*Camponotus ephippium ephippium* 113  
*Camponotus ephippium narses* 113  
*Camponotus eremicus* 113  
*Camponotus erythropus* 113  
*Camponotus esau* 113  
*Camponotus evae* 113

- Camponotus evae evae* 113  
*Camponotus evae zeuxis* 113  
*Camponotus extensus* 113  
*Camponotus fictor* 113  
*Camponotus fictor augustulus* 113  
*Camponotus fictor fictor* 113  
*Camponotus fieldae* 113  
*Camponotus fieldellus* 114  
*Camponotus froggatti* 114  
*Camponotus gasseri* 114  
*Camponotus gasseri caloratus* 114  
*Camponotus gasseri gasseri* 114  
*Camponotus gasseri lysias* 114  
*Camponotus gasseri obtusitruncatus* 114  
*Camponotus gibbinotus* 114  
*Camponotus gouldianus* 114  
*Camponotus hartogi* 114  
*Camponotus horni* 114  
*Camponotus howensis* 115  
*Camponotus impavidus* 108  
*Camponotus inflatus* 115  
*Camponotus innexus* 115  
*Camponotus insipidus* 115  
*Camponotus intrepidus* 115  
*Camponotus intrepidus bellicosus* 115  
*Camponotus intrepidus intrepidus* 115  
*Camponotus janeti* 115  
*Camponotus latrunculus* 115  
*Camponotus latrunculus latrunculus* 115  
*Camponotus latrunculus victoriensis* 115  
*Camponotus leae* 116  
*Camponotus lividicoxis* 116  
*Camponotus lownei* 116  
*Camponotus maculatus* 116  
*Camponotus maculatus discors* 112  
*Camponotus maculatus humilior* 116  
*Camponotus magnus* 115  
*Camponotus michaelsoni* 116  
*Camponotus midas* 116  
*Camponotus molossus* 116  
*Camponotus myopor* 116  
*Camponotus (Myrmamblys) aurofasciatus* 115  
*Camponotus (Myrmocamelus) bigenus* 110  
*Camponotus (Myrmocamelus) cinereus amperei* 110  
*Camponotus (Myrmocamelus) dromas* 112  
*Camponotus (Myrmocamelus) ephippium narses* 113  
*Camponotus (Myrmocamelus) esau* 113  
*Camponotus (Myrmocamelus) pellax* 118  
*Camponotus (Myrmogonia) armstrongi* 110  
*Camponotus (Myrmogonia) cameratus* 110  
*Camponotus (Myrmogonia) eremicus* 113  
*Camponotus (Myrmogonia) evae zeuxis* 113  
*Camponotus (Myrmogonia) oetkeri voltai* 117  
*Camponotus (Myrmogonia) punctiventris* 118  
*Camponotus (Myrmogonia) sanguinea* 118  
*Camponotus (Myrmogonia) tumidus* 120  
*Camponotus (Myrmophyma) capito ebeninithorax* 110  
*Camponotus (Myrmophyma) ceriseipes* 110  
*Camponotus (Myrmophyma) chaldeoides* 110  
*Camponotus (Myrmophyma) claripes minima* 111  
*Camponotus (Myrmophyma) claripes orbiculatopunctatus* 111  
*Camponotus (Myrmophyma) claripes piperatus* 111  
*Camponotus (Myrmophyma) darlingtoni* 120  
*Camponotus (Myrmophyma) lividicoxis* 116  
*Camponotus (Myrmophyma) nitidiceps* 117  
*Camponotus (Myrmophyma) rotnesti* 120  
*Camponotus (Myrmophyma) tristis* 120  
*Camponotus (Myrmosaga) afflatus* 109  
*Camponotus (Myrmosaga) chalceus* 110  
*Camponotus (Myrmosaga) erythropus* 113  
*Camponotus (Myrmosaga) ferruginipes* 114  
*Camponotus (Myrmosaulus) scutellus* 121  
*Camponotus (Myrmosaulus) versicolor* 120  
*Camponotus (Myrmosericus) cruentatus aspera* 112  
*Camponotus (Myrmosphincta) leae* 116  
*Camponotus (Myrmosphincta) whitei* 121  
*Camponotus (Myrmoturba) latrunculus* 115  
*Camponotus (Myrmoturba) latrunculus victoriensis* 115  
*Camponotus (Myrmoturba) maculatus yarrabahensis* 112  
*Camponotus (Myrmoturba) villosa* 120  
*Camponotus nigriceps* 116  
*Camponotus nigriceps clarior* 117  
*Camponotus nigriceps lividipes* 117  
*Camponotus nigriceps nigriceps* 116  
*Camponotus nigriceps obniger* 117  
*Camponotus nigriceps pallidiceps* 117  
*Camponotus nigroaeneus* 117  
*Camponotus nigroaeneus divus* 117  
*Camponotus nigroaeneus nigroaeneus* 117  
*Camponotus nitidiceps* 117  
*Camponotus novaehollandiae* 117  
*Camponotus oetkeri* 117  
*Camponotus oetkeri oetkeri* 117  
*Camponotus oetkeri voltai* 117  
*Camponotus oxleyi* 117  
*Camponotus pellax* 118  
*Camponotus podenzanai* 126  
*Camponotus postcornutus* 118  
*Camponotus punctiventris* 118  
*Camponotus purpureus* 108  
*Camponotus reticulatus* 118, 119  
*Camponotus reticulatus mackayensis* 118  
*Camponotus rubiginosus* 118  
*Camponotus rufus* 118  
*Camponotus sanguinea* 118  
*Camponotus sanguinifrons* 118  
*Camponotus schencki* 119  
*Camponotus scratius* 118  
*Camponotus scratius nuntius* 118  
*Camponotus scratius scratius* 118  
*Camponotus semicarinatus* 118  
*Camponotus similis* 108  
*Camponotus simulator* 119  
*Camponotus spenceri* 119  
*Camponotus spinatarsus* 119  
*Camponotus splendidus* 108  
*Camponotus sponsorum* 119  
*Camponotus subnitidus* 119  
*Camponotus subnitidus famelicus* 119  
*Camponotus subnitidus longinodis* 119  
*Camponotus subnitidus subnitidus* 119  
*Camponotus suffusus* 119  
*Camponotus suffusus bendigensis* 120  
*Camponotus suffusus suffusus* 119  
*Camponotus (Tanaemyrmex) myopor* 116  
*Camponotus (Tanaemyrmex) postcornutus* 118  
*Camponotus (Tanaemyrmex) spenceri* 119  
*Camponotus (Tanaemyrmex) tricoloratus* 120  
*Camponotus tasmani* 120



- Camponotus testaceipes* 120  
*Camponotus tricoloratus* 120  
*Camponotus tristis* 120  
*Camponotus tumidus* 120  
*Camponotus versicolor* 120  
*Camponotus villosus* 120  
*Camponotus vitreus* 120  
*Camponotus walkeri* 121  
*Camponotus walkeri bardus* 121  
*Camponotus walkeri walkeri* 121  
*Camponotus whitei* 121  
*Camponotus wiederkehri* 121  
*Camponotus wiederkehri lucidior* 121  
*Camponotus wiederkehri wiederkehri* 121  
*Campostigmacros* 144  
*(Campostigmacros) anthracina, Stigmacros* 145  
*(Campostigmacros) brachytera, Stigmacros* 145  
*(Campostigmacros) epinotalis, Stigmacros* 146  
*(Campostigmacros) marginata, Stigmacros* 147  
*(Campostigmacros) nitida, Stigmacros* 147  
*(Campostigmacros) stanleyi, Stigmacros* 148  
*candida, Melophorus turneri* 124  
*candidus, Melophorus turneri* 124  
*capitale, Tetramorium* 89  
*capitalis, Xiphomyrmex* 89  
*capitatus minor, Notoncus* 125  
*capitatus, Notoncus* 125  
*capito, Camponotus* 110  
*capito, Camponotus capito* 110  
*capito capito, Camponotus* 110  
*capito ebeninithorax, Camponotus* 110  
*capito ebeninithorax, Camponotus (Myrmophyma)* 110  
*carazzii, Camponotus* 126  
*carazzii, Notostigma* 126  
*carbonaria, Chalcoponera metallica* 44  
*cardigaster, Myrmecia* 7  
*Cardiocondyla* 55  
*Cardiocondyla nuda* 55  
*Cardiocondyla nuda atalanta* 55  
*Cardiocondyla nuda nereis* 55  
*carinata, Rhytidoponera* 41  
*caro, Ectatomma (Rhytidoponera) cristatum* 40  
*carteri, Myrmecorhynchus* 124  
*castanea, Myopopone* 35  
*castanea, Podomyrma* 84  
*castanea, Rhytidoponera* 47  
*castanea, Stigmacros* 146  
*castanea, Stigmacros (Cyrtostigmacros)* 146  
*castaneus, Amblyopone* 35  
*castaneus, Phyracaces* 24  
*castrae, Iridomyrmex detectus* 102  
*castrae, Iridomyrmex purpureus* 102  
*cataulacoidea, Polyrhachis* 132  
*cedarensis, Pheidole athertonensis* 75  
*cedarensis, Polyrhachis (Campomyrma) leae* 137  
*cedarensis, Polyrhachis leae* 137  
*cedarensis, Rhytidoponera (Chalcoponera) victoriae* 49  
*cedarensis, Technomyrmex albipes* 106  
*cedaris, Sphinctomyrmex* 50  
*cedaris, Sphinctomyrmex (Eusphinctus) fallax* 50  
*celaena, Myrmecia* 7  
*celaena, Promyrmecia* 7  
*centrale, Monomorium* 56  
*centralis, Chelaner* 56  
*centralis, Leptogenys conigera* 33  
*centralis, Leptogenys (Lobopelta) conigera* 33  
*cephalicum, Tapinoma (Micromyrma) minutum* 106  
*cephalicum, Tapinoma minutum* 106  
*cephalotes, Myrmecia* 7  
*cephalotes, Odontomachus* 36  
*cephalotes, Platythyrea* 37  
*cephalotes, Promyrmecia* 7  
*Cerapachys* 23  
*Cerapachys aberrans* 23  
*Cerapachys adamus* 24  
*Cerapachys angustatus* 24  
*Cerapachys bicolor* 24  
*Cerapachys binodis* 24  
*Cerapachys brevicollis* 24  
*Cerapachys brevis* 24  
*Cerapachys clarki* 24  
*Cerapachys constrictus* 24  
*Cerapachys crassus* 24  
*Cerapachys edentatus* 24  
*Cerapachys elegans* 25  
*Cerapachys emeryi* 25, 51  
*Cerapachys emeryi clarus* 50  
*Cerapachys fervidus* 25  
*Cerapachys ficosus* 25  
*Cerapachys flammeus* 25  
*Cerapachys gilesi* 25  
*Cerapachys grandis* 25  
*Cerapachys greavesi* 25  
*Cerapachys gwynethae* 26  
*Cerapachys heros* 26  
*Cerapachys incontentus* 26  
*Cerapachys jovis* 26  
*Cerapachys larvatus* 26  
*Cerapachys latus* 26  
*Cerapachys longitarsus* 26  
*Cerapachys macrops* 26  
*Cerapachys mjobergi* 26  
*Cerapachys mullewanus* 26  
*Cerapachys nigriventris* 27  
*Cerapachys (Phyracaces) adamus* 24  
*Cerapachys (Phyracaces) binodis* 24  
*Cerapachys (Phyracaces) jovis* 26  
*Cerapachys (Phyracaces) mjobergi* 26  
*Cerapachys (Phyracaces) singularis rotula* 28  
*Cerapachys (Phyracaces) sjostedti* 28  
*Cerapachys (Phyracaces) turneri* 28  
*Cerapachys picipes* 27  
*Cerapachys pictus* 27  
*Cerapachys piliventris* 27  
*Cerapachys potteri* 27  
*Cerapachys princeps* 27  
*Cerapachys punctatissimus* 27  
*Cerapachys ruficornis* 27  
*Cerapachys rugulinodis* 27  
*Cerapachys senescens* 27  
*Cerapachys simmonsae* 28  
*Cerapachys singularis* 28  
*Cerapachys sjostedti* 28  
*Cerapachys turneri* 28  
*Cerapachys varians* 28  
*cerastes brevior, Rhytidoponera* 48  
*cerastes, Rhytidoponera* 41  
*ceriseipes, Camponotus* 110  
*ceriseipes, Camponotus (Myrmophyma)* 110  
*cerornata, Colobostruma* 59

- ceylonica, Typhlatta 52  
 ceylonicus, Aenictus 52  
 chaldeoides, Camponotus 110  
 chaldeoides, Camponotus (Myrmophyma) 110  
 chalceus, Camponotus 110  
 chalceus, Camponotus (Myrmosaga) 110  
 chalchas, Polyrhachis 132  
 Chalcoponera 40  
 (Chalcoponera) arnoldi, Rhytidoponera 40  
 (Chalcoponera) aspera scabrior, Rhytidoponera 48  
 Chalcoponera brunnea 41  
 (Chalcoponera) caeciliae, Rhytidoponera 45  
 (Chalcoponera) clarki, Rhytidoponera 42  
 (Chalcoponera) dubia, Rhytidoponera 43  
 (Chalcoponera) fastuosa, Rhytidoponera 42  
 Chalcoponera flavipes 43  
 Chalcoponera hilli 42  
 (Chalcoponera) lamellinodis, Rhytidoponera 44  
 Chalcoponera metallica carbonaria 44  
 (Chalcoponera) metallica inornata, Rhytidoponera 44  
 (Chalcoponera) metallica purpurascens, Rhytidoponera 45  
 (Chalcoponera) metallica varians, Rhytidoponera 45  
 (Chalcoponera) numeensis borealis, Rhytidoponera 41  
 Chalcoponera pulchra 45  
 Chalcoponera victoriae andrei 42  
 (Chalcoponera) victoriae cedarensis, Rhytidoponera 49  
 (Chalcoponera) victoriae maledicta, Rhytidoponera 44  
 Chalcoponera viridis 49  
 chalybaea, Rhytidoponera 41  
 chalybaea, Rhytidoponera impressa 41  
 Chariomyrma 130  
 (Chariomyrma) gab aegra, Polyrhachis 134  
 (Chariomyrma) gab tripellis, Polyrhachis 134  
 Chariostigmatos 144  
 (Chariostigmatos) hirsuta, Stigmatos 147  
 chasei chasei, Iridomyrmex 97  
 chasei chasei, Myrmecia 7  
 chasei concolor, Iridomyrmex 97  
 chasei, Cremastogaster laeviceps 61  
 chasei, Cremastogaster laeviceps 61  
 chasei, Iridomyrmex 96, 97  
 chasei, Iridomyrmex chasei 97  
 chasei ludlowi, Myrmecia 7  
 chasei, Myrmecia 7  
 chasei, Myrmecia chasei 7  
 chasei, Podomyrma 80  
 chasei yalooensis, Iridomyrmex 97  
 Chelaner 55  
 Chelaner armstrongi 56  
 Chelaner bicornis 56  
 Chelaner centralis 56  
 Chelaner falcatus 56  
 Chelaner flavigaster 56  
 Chelaner flavipes 56  
 Chelaner foreli 56  
 Chelaner gilberti 56  
 Chelaner gilberti gilberti 56  
 Chelaner gilberti mediorubrus 56  
 Chelaner howensis 56  
 Chelaner insolescens 57  
 Chelaner insularis 57  
 Chelaner kiliani 57  
 Chelaner kiliani kiliani 57  
 Chelaner kiliani obscurus 57  
 Chelaner kiliani tambourinensis 57  
 Chelaner leae 57  
 Chelaner longiceps 57  
 Chelaner macareaveyi 57  
 Chelaner occidaneus 57  
 Chelaner rothsteini 57  
 Chelaner rothsteini doddi 58  
 Chelaner rothsteini humilior 58  
 Chelaner rothsteini leda 58  
 Chelaner rothsteini rothsteini 58  
 Chelaner rothsteini squamigena 58  
 Chelaner rothsteini tostum 58  
 Chelaner rubriceps 58  
 Chelaner rubriceps cinctus 58  
 Chelaner rubriceps extremigris 58  
 Chelaner rubriceps rubriceps 58  
 Chelaner rubriceps rubrus 58  
 Chelaner sanguinolentus 58  
 Chelaner sculpturatus 58  
 Chelaner sordidus 59  
 Chelaner sordidus nigriventris 59  
 Chelaner sordidus sordidus 59  
 Chelaner subapterus 59  
 Chelaner subapterus bogischi 59  
 Chelaner subapterus subapterus 59  
 Chelaner turneri 59  
 Chelaner whitei 59  
 chelifer, Leptogenys 32  
 chelifer, Pseudoponera 32  
 chillagoensis, Cremastogaster australis 60  
 chillagoensis, Cremastogaster australis 60  
 chnoopyx, Rhytidoponera 41  
 christae, Dacryon 81  
 christae, Podomyrma 81  
 chrysogaster, Myrmecia 7  
 chrysogaster, Promyrmecia 7  
 chrysothorax, Polyrhachis 132  
 chrysothorax, Polyrhachis (Hedomyrma) 132  
 cinctum, Monomorium rubriceps 58  
 cinctus, Chelaner rubriceps 58  
 cinereus amperei, Camponotus 110  
 cinereus amperei, Camponotus (Myrmocamelus) 110  
 cinereus, Camponotus 110  
 cinereus, Camponotus cinereus 110  
 cinereus cinereus, Camponotus 110  
 cinereus notterae, Camponotus 111  
 clara, Brachyponera lutea 23  
 clara, Euponera (Brachyponera) lutea 23  
 clarior, Camponotus nigriceps 117  
 clarior, Cremastogaster laeviceps 61  
 clarior, Cremastogaster laeviceps 61  
 claripes, Camponotus 111  
 claripes, Camponotus claripes 111  
 claripes claripes, Camponotus 111  
 claripes elegans, Camponotus 111  
 claripes inverallensis, Camponotus 111  
 claripes marces, Camponotus 111  
 claripes minima, Camponotus (Myrmophyma) 111  
 claripes minimus, Camponotus 111  
 claripes nudimalis, Camponotus 111  
 claripes orbiculatopunctatus, Camponotus 111  
 claripes orbiculatopunctatus, Camponotus (Myrmophyma) 111  
 claripes piperatus, Camponotus 111  
 claripes piperatus, Camponotus (Myrmophyma) 111

- clarithorax, *Iridomyrmex glaber* 99  
 clarki, *Amblyopone* 19  
 clarki, *Cerapachys* 24  
 clarki clarki, *Plagiolepis* 130  
 clarki, *Dolichoderus* 93  
 clarki, *Euponera* (*Trachymesopus*) 52  
 clarki impasta, *Plagiolepis* 130  
 clarki, *Leptogenys* 32  
 clarki, *Leptomyrmex erythrocephalus* 103  
 clarki, *Myrmecia* 7  
 clarki, *Orectognathus* 72  
 clarki, *Phyracaces* 24  
 clarki, *Plagiolepis* 129, 130  
 clarki, *Plagiolepis clarki* 130  
 clarki, *Podomyrma* 81  
 clarki, *Prolasius* 142  
 clarki, *Pseudopodomyrma* 81  
 clarki, *Rhytidoponera* 41  
 clarki, *Rhytidoponera* (*Chalcoponera*) 42  
 clarki, *Solenopsis* 87  
 clarki, *Stigmacros* 146  
 clarki, *Stigmacros* (*Cyrtostigmacros*) 146  
 clarki, *Trachymesopus* 52  
 Clarkistruma 59  
 clarus, *Cerapachys emeryi* 50  
 clarus mjobergi, *Sphinctomyrmex* 51  
 clarus, *Phyracaces* 27  
 clarus, *Sphinctomyrmex* 50  
 clavicornis, *Ponera* 38  
 cleopatra, *Polyrhachis* 132  
 clio, *Polyrhachis* 132  
 clitellarius, *Iridomyrmex nitidus* 101  
 clivispina, *Acantholepis* (*Acrostigma*) 146  
 clivispina, *Stigmacros* 146  
 clotho, *Polyrhachis* 132  
 clusor, *Dolichoderus* 93  
 cnemidatus, *Leptomyrmex erythrocephalus* 103  
 coarctata mackayensis, *Ponera* 31  
 coccinatus, *Orectognathus* 72  
 Codiomyrmex flagellatus 64  
 Codiomyrmex semicomptus 64  
 (Colobopsis) fictor augustulus, *Camponotus* 113  
 (Colobopsis) fictor, *Camponotus* 113  
 Colobopsis gasseri 114  
 (Colobopsis) gasseri caloratus, *Camponotus* 114  
 (Colobopsis) gasseri lysias, *Camponotus* 114  
 (Colobopsis) gasseri obtusitruncatus, *Camponotus* 114  
 (Colobopsis) howensis, *Camponotus* 115  
 Colobopsis rufifrons semicarinata 118  
 (Colobopsis) sanguinifrons, *Camponotus* 118  
 Colobostruma 59  
 Colobostruma alinodis 59  
 Colobostruma australis 59  
 Colobostruma cerornata 59  
 Colobostruma elliotti 60  
 Colobostruma froggatti 60  
 Colobostruma leae 60  
 (Colobostruma) leae, *Epopostruma* 60  
 Colobostruma nancyae 60  
 Colobostruma papulata 60  
 colosseensis, *Diacamma australe* 29  
 comata, *Myrmecia* 7  
 comata, *Polyrhachis* 134  
 concentrica concentrica, *Pheidole* 76  
 concentrica, *Pheidole* 76  
 concentrica, *Pheidole concentrica* 76  
 concentrica recurva, *Pheidole* 76  
 concolor, *Iridomyrmex chasei* 97  
 conficta, *Pheidole* 76  
 confusa, *Rhytidoponera* 42  
 confusum, *Tetramorium* 89  
 confusus, *Camponotus dorycus* 112  
 congrua, *Hypoponera* 31  
 congrua, *Ponera* 31  
 conifer, *Iridomyrmex* 97  
 conigera adlerzi, *Leptogenys* 33  
 conigera adlerzi, *Leptogenys* (*Lobopelta*) 33  
 conigera centralis, *Leptogenys* 33  
 conigera centralis, *Leptogenys* (*Lobopelta*) 33  
 conigera conigera, *Leptogenys* 32  
 conigera exigua, *Leptogenys* 33  
 conigera exigua, *Leptogenys* (*Lobopelta*) 33  
 conigera, *Leptogenys* 32  
 conigera, *Leptogenys conigera* 32  
 conigera, *Lobopelta* 32  
 conigera mutans, *Leptogenys* 33  
 conigera mutans, *Leptogenys* (*Lobopelta*) 33  
 connectens australiae, *Polyrhachis* 139  
 consectator, *Camponotus* 111  
 consectator, *Formica* 111  
 consobrina, *Formica* 111  
 consobrinus, *Camponotus* 111  
 constans, *Melophorus* 122  
 constricta, *Phyracaces* 24  
 constricta, *Polyrhachis* 132  
 constrictus, *Cerapachys* 24  
 contemta, *Polyrhachis* 133  
 continentis, *Iridomyrmex mattirolai* 100  
 continentis, *Pheidole tasmaniensis* 78  
 convergens, *Podomyrma* 81  
 convexa opacior, *Rhytidoponera* 49  
 convexa, *Rhytidoponera* 42  
 convexa rufiventris, *Rhytidoponera* 47  
 convexiuscula, *Hypoponera* 31  
 convexiuscula, *Ponera trigona* 31  
 convexum, *Ectatomma* 42  
 convexum gemma, *Ectatomma* (*Rhytidoponera*) 49  
 convexum nodiferum, *Ectatomma* (*Rhytidoponera*) 46  
 convexum rufescens, *Ectatomma* (*Rhytidoponera*) 47  
 convexum spatiatum, *Ectatomma* (*Rhytidoponera*) 45  
 convexum violaceum, *Ectatomma* (*Rhytidoponera*) 49  
 convexus, *Prolasius* 142  
 cordata, *Formica* 97  
 cordata, *Myrmecia* 7  
 cordatus, *Iridomyrmex* 97  
 cordatus stewartii, *Iridomyrmex* 97  
 coriarius magnus, *Odontomachus* 36  
 coriarius obscura, *Odontomachus* 36  
 coriarius, *Odontomachus* 36  
 coriarius semicircularis, *Odontomachus* 36  
 corniger corniger, *Oligomyrmex* 72  
 corniger, *Oligomyrmex* 72  
 corniger, *Oligomyrmex corniger* 72  
 corniger parvicornis, *Oligomyrmex* 72  
 cornigera, *Crematogaster* 60  
 cornigera, *Crematogaster* 60  
 cornuta fusciventris, *Rhytidoponera* 48  
 cornuta, *Rhytidoponera* 42  
 cornutum, *Ectatomma* (*Rhytidoponera*) 42  
 cornutum taurus, *Ectatomma* (*Rhytidoponera*) 48



- cowlei*, *Camponotus* 112  
*crassicornis*, *Discothyrea* 29  
*crassinoda*, *Myrmecia* 14  
*crassinode*, *Ectatomma* (*Rhytidoponera*) 42  
*crassinodis*, *Rhytidoponera* 42  
*crassus*, *Cerapachys* 24  
*crassus*, *Phyracaces* 24  
*crawleyella*, *Polyrhachis* 134  
*crawleyi*, *Meranoplus* 68  
*crawleyi*, *Polyrhachis ammonoeides* 131  
*crawleyi*, *Polyrhachis* (*Hagiomyrma*) *ammonoeides* 131  
*Crematogaster* 60  
*Crematogaster* (*Atopogyne*) *eurydice* 61  
*Crematogaster australis* 60  
*Crematogaster australis chillagoensis* 60  
*Crematogaster australis sycites* 60  
*Crematogaster cornigera* 60  
*Crematogaster frivola sculpticeps* 61  
*Crematogaster frivulus* 61  
*Crematogaster fusca* 61  
*Crematogaster kutteri* 61  
*Crematogaster laeviceps broomensis* 61  
*Crematogaster laeviceps chasei* 61  
*Crematogaster laeviceps clarior* 61  
*Crematogaster longiceps* 62  
*Crematogaster mjobergi* 62  
*Crematogaster pallidipes* 62  
*Crematogaster pallipes* 62  
*Crematogaster pythia* 62  
*Crematogaster rufotestacea* 63  
*Crematogaster scita* 63  
*Crematogaster scita mixta* 63  
*Crematogaster sordidula dispar* 61  
*Crematogaster sordidula froggatti* 62  
*Crematogaster sordidula gilberti* 62  
*Crematogaster sordidula queenslandica* 62  
*Crematogaster sordidula rogans* 63  
*Crematogaster* 60  
*Crematogaster australis* 60  
*Crematogaster australis australis* 60  
*Crematogaster australis chillagoensis* 60  
*Crematogaster australis sycites* 60  
*Crematogaster cornigera* 60  
*Crematogaster dispar* 61  
*Crematogaster eurydice* 61  
*Crematogaster frivola* 61  
*Crematogaster frivola frivola* 61  
*Crematogaster frivola sculpticeps* 61  
*Crematogaster froggatti scabrula* 63  
*Crematogaster fusca* 61  
*Crematogaster kutteri* 61  
*Crematogaster laeviceps* 61  
*Crematogaster laeviceps broomensis* 61  
*Crematogaster laeviceps chasei* 61  
*Crematogaster laeviceps clarior* 61  
*Crematogaster laeviceps laeviceps* 61  
*Crematogaster longiceps* 61  
*Crematogaster longiceps curticeps* 62  
*Crematogaster longiceps longiceps* 62  
*Crematogaster mjobergi* 62  
*Crematogaster* (*Orthocrema*) *rufotestacea dentinasis* 63  
*Crematogaster pallida* 62  
*Crematogaster pallidus* 62  
*Crematogaster pallipes* 62  
*Crematogaster perthensis* 62  
*Crematogaster piceus* 62  
*Crematogaster pythia* 62  
*Crematogaster queenslandica* 62  
*Crematogaster queenslandica froggatti* 62  
*Crematogaster queenslandica gilberti* 62  
*Crematogaster queenslandica queenslandica* 62  
*Crematogaster queenslandica rogans* 63  
*Crematogaster queenslandica scabrula* 63  
*Crematogaster rufotestacea* 63  
*Crematogaster rufotestacea dentinasis* 63  
*Crematogaster rufotestacea rufotestacea* 63  
*Crematogaster scita* 63  
*Crematogaster scita mixta* 63  
*Crematogaster scita scita* 63  
*Crematogaster whitei* 63  
*Crematogaster xerophila* 63  
*Crematogaster xerophila exigua* 63  
*Crematogaster xerophila xerophila* 63  
*crenatus*, *Camponotus* 112  
*cristata*, *Rhytidoponera* 42  
*cristata yorkensis*, *Rhytidoponera* 49  
*cristatum caro*, *Ectatomma* (*Rhytidoponera*) 40  
*cristatum*, *Ectatomma* 42  
*cristatum punctiventris*, *Ectatomma* (*Rhytidoponera*) 46  
*cristulatum*, *Ectatomma* (*Rhytidoponera*) *metallicum* 48  
*croceicornis*, *Brachyponera* 23  
*croceicornis*, *Euponera* (*Brachyponera*) *luteipes* 23  
*croesus*, *Rhytidoponera* 42  
*crudelis*, *Myrmecia* 16  
*cruentata*, *Formica* 112  
*cruentatus aspera*, *Camponotus* 112  
*cruentatus aspera*, *Camponotus* (*Myrmosericus*) 112  
*cruentatus*, *Camponotus* 112  
*Cryptocerus pubescens* 68  
*Cryptopone* 28  
*Cryptopone rotundiceps* 28  
*cupreata*, *Polyrhachis hermione* 135  
*curticeps*, *Crematogaster longiceps* 62  
*curtus*, *Melophorus* 122  
*curvispina*, *Meranoplus puryi* 68  
*cyaneus*, *Iridomyrmex* 97  
*cydista*, *Myrmecia* 8  
*cydista*, *Promyrmecia* 8  
*(Cyrtomyrma) doddi*, *Polyrhachis* 133  
*(Cyrtomyrma) mackayi*, *Polyrhachis* 137  
*(Cyrtomyrma) nox*, *Polyrhachis* 138  
*(Cyrtomyrma) rastellata yorkana*, *Polyrhachis* 139  
*(Cyrtomyrma) townsvillae*, *Polyrhachis* 141  
*Cyrtostigmacros* 144  
*(Cyrtostigmacros) aciculata*, *Stigmacros* 145  
*(Cyrtostigmacros) armstrongi*, *Stigmacros* 145  
*(Cyrtostigmacros) brooksi*, *Stigmacros* 145  
*(Cyrtostigmacros) castanea*, *Stigmacros* 146  
*(Cyrtostigmacros) clarki*, *Stigmacros* 146  
*(Cyrtostigmacros) extreminigra*, *Stigmacros* 146  
*(Cyrtostigmacros) ferruginea*, *Stigmacros* 146  
*(Cyrtostigmacros) flava*, *Stigmacros* 146  
*(Cyrtostigmacros) glauerti*, *Stigmacros* 146  
*(Cyrtostigmacros) lanaris*, *Stigmacros* 147  
*(Cyrtostigmacros) major*, *Stigmacros* 147  
*(Cyrtostigmacros) proxima*, *Stigmacros* 148  
*(Cyrtostigmacros) sordida*, *Stigmacros* 148  
*(Cyrtostigmacros) striata*, *Stigmacros* 148  
*cyrus*, *Ectatomma* (*Rhytidoponera*) 41  
*Dacryon* 79

- Dacryon christae* 81  
*Dacryon ferruginea* 81  
*Dacryon kitschneri* 82  
*Dacryon liber* 83  
*Dacryon marginatus* 83  
*Dacryon mjobergi* 83  
*Dacryon nitida* 83  
*Dacryon omniparens* 84  
*Dacryon turneri* 84  
*daemeli argentea*, *Polyrhachis* 133  
*daemeli daemeli*, *Polyrhachis* 133  
*daemeli exlex*, *Polyrhachis* 133  
*daemeli exlex*, *Polyrhachis* (*Hedomyrma*) 133  
*daemeli*, *Polyrhachis* 133  
*daemeli*, *Polyrhachis daemeli* 133  
*darlingtoni*, *Camponotus* (*Myrmophyma*) 120  
*darlingtoni darlingtoni*, *Leptomyrmex* 103  
*darlingtoni fascigaster*, *Leptomyrmex* 103  
*darlingtoni jucundus*, *Leptomyrmex* 103  
*darlingtoni*, *Leptogenys* 33  
*darlingtoni*, *Leptogenys* (*Lobopelta*) 33  
*darlingtoni*, *Leptomyrmex* 103  
*darlingtoni*, *Leptomyrmex darlingtoni* 103  
*darlingtoni*, *Orectognathus* 73  
*darwinianum fida*, *Tapinoma* (*Doleromyrma*) 97  
*darwinianum*, *Tapinoma* (*Doleromyrma*) 97  
*darwinianus darwinianus*, *Iridomyrmex* 97  
*darwinianus fida*, *Iridomyrmex* 97  
*darwinianus*, *Iridomyrmex* 97  
*darwinianus*, *Iridomyrmex darwinianus* 97  
*darwinianus leae*, *Iridomyrmex* 97  
*darwinii*, *Belonopelta* 52  
*darwinii*, *Trachymesopus* 52  
*deceptum*, *Tetramorium* 89  
*decipians*, *Myrmecia* 8  
*decipiens*, *Leptomyrmex erythrocephalus* 104  
*decora*, *Hypoponera* 31  
*decora*, *Ponera* 31  
*degener*, *Polyrhachis sokolova* 140  
*delbruckii*, *Podomyrma* 81  
*delicata*, *Polyrhachis* 139  
*densestrigosa densestrigosa*, *Podomyrma* 81  
*densestrigosa*, *Podomyrma* 81  
*densestrigosa*, *Podomyrma densestrigosa* 81  
*densestrigosa teres*, *Podomyrma* 81  
*dentata*, *Notoncus foreli* 125  
*dentatus*, *Dolichoderus* 93  
*dentatus*, *Dolichoderus doriae* 93  
*denticulata*, *Bothroponera* 21  
*denticulatus*, *Camponotus* 112  
*dentinasis*, *Crematogaster* (*Orthocrema*) *rufotestacea* 63  
*dentinasis*, *Crematogaster rufotestacea* 63  
*dentinodis*, *Eubothroponera* 37  
*dentinodis*, *Platythyrea* 37  
*depilis*, *Iridomyrmex itinerans* 100  
*depilis*, *Polyrhachis aurea* 132  
*depressiceps depressiceps*, *Prolasius* 142  
*depressiceps*, *Melophorus* 142  
*depressiceps*, *Prolasius* 142  
*depressiceps*, *Prolasius depressiceps* 142  
*depressiceps similis*, *Prolasius* 142  
*deserticola deserticola*, *Pheidole* 76  
*deserticola foveifrons*, *Pheidole* 76  
*deserticola*, *Pheidole* 76  
*deserticola*, *Pheidole deserticola* 76  
*desertorum*, *Myrmecia* 8  
*desertorum*, *Myrmecia vindex* 8  
*detecta*, *Formica* 101  
*detectus castrae*, *Iridomyrmex* 102  
*detectus sanguinea*, *Iridomyrmex* 102  
*detectus viridiaeneus*, *Iridomyrmex* 102  
*deuqueti*, *Aenictus* 53  
*diabolus*, *Anochetus rectangularis* 21  
*Diacamma* 28  
*Diacamma australe* 29  
*Diacamma australe colosseensis* 29  
*Diacamma australe levis* 29  
*diadela*, *Trapeziopelta* 35  
*diadematus diadematus*, *Opisthopsis* 127  
*diadematus dubius*, *Opisthopsis* 127  
*diadematus*, *Opisthopsis* 127  
*diadematus*, *Opisthopsis diadematus* 127  
*Diceratoclinea* 92  
*dichospila*, *Myrmecia* 8  
*dichospila*, *Myrmecia* (*Promyrmecia*) 8  
*dichrous*, *Meranoplus* 66  
*dimidiata*, *Myrmecia* 8  
*dimidiatus*, *Camponotus* 112  
*dimidiatus*, *Meranoplus* 66  
*diminuta*, *Leptogenys* 33  
*diminuta*, *Ponera* 33  
*diminuta yarrabahna*, *Leptogenys* 33  
*diminuta yarrabahna*, *Leptogenys* (*Lobopelta*) 33  
(*Dinomyrmex*) *rufus*, *Camponotus* 118  
(*Dinomyrmex*) *simulator*, *Camponotus* 119  
(*Dinomyrmex*) *spinitarsus*, *Camponotus* 119  
(*Dinomyrmex*) *subnitidus longinodis*, *Camponotus* 119  
*Diodontolepis* 125  
*discors aeneogaster*, *Iridomyrmex* 98  
*discors*, *Camponotus* 112  
*discors*, *Camponotus discors* 112  
*discors*, *Camponotus maculatus* 112  
*discors discors*, *Camponotus* 112  
*discors discors*, *Iridomyrmex* 97  
*discors*, *Iridomyrmex* 97  
*discors*, *Iridomyrmex discors* 97  
*discors obscurior*, *Iridomyrmex* 98  
*discors occipitalis*, *Iridomyrmex* 98  
*discors yarrabahensis*, *Camponotus* 112  
*Discothyrea* 29  
*Discothyrea bidens* 29  
*Discothyrea crassicornis* 29  
*Discothyrea leae* 29  
*Discothyrea turtoni* 29  
*Discothyrea velutina* 29  
*dispar*, *Crematogaster sordidula* 61  
*dispar*, *Crematogaster* 61  
*dispar*, *Liomyrmex* (*Machomyrma*) 65  
*dispar*, *Machomyrma* 65  
*dispar*, *Myrmecia* 8  
*dispar*, *Promyrmecia* 8  
*diversus diversus*, *Meranoplus* 66  
*diversus duyfkeni*, *Meranoplus* 67  
*diversus*, *Meranoplus* 66  
*diversus*, *Meranoplus diversus* 66  
*diversus oxleyi*, *Meranoplus* 67  
*diversus unicolor*, *Meranoplus* 67  
*divus*, *Camponotus nigroaeneus* 117  
*dixoni*, *Myrmecia* 8  
*dixoni*, *Promyrmecia* 8

- dixonii, Rhytidoponera 45  
 doddi, Chelaner rothsteini 58  
 doddi, Meranoplus aureolus 66  
 doddi, Monomorium (Paraholcomyrme) rothsteini 58  
 doddi, Onychomyrmex 37  
 doddi, Pheidole longiceps 77  
 doddi, Polyrhachis 133  
 doddi, Polyrhachis (Cyrtomyrma) 133  
 Doleromyrma 95  
 (Doleromyrma) darwinianum fida, Tapinoma 97  
 (Doleromyrma) darwinianum, Tapinoma 97  
 dolichocephala, Pheidole 79  
**DOLICHODERINAE** 2, 92  
 Dolichoderus 92  
 Dolichoderus angusticornis 93  
 Dolichoderus armstrongi 93  
 Dolichoderus australis 93  
 Dolichoderus clarki 93  
 Dolichoderus clusor 93  
 Dolichoderus dentatus 93  
 Dolichoderus doriae 93  
 Dolichoderus doriae dentatus 93  
 Dolichoderus doriae extensispinia 93  
 Dolichoderus extensispinus 93  
 Dolichoderus formosus 93  
 Dolichoderus glauerti 93  
 Dolichoderus goudiei 94  
 Dolichoderus (Hypoclinea) angusticornis 93  
 Dolichoderus (Hypoclinea) armstrongi 93  
 Dolichoderus (Hypoclinea) formosus 93  
 Dolichoderus (Hypoclinea) glauerti 93  
 Dolichoderus (Hypoclinea) goudiei 94  
 Dolichoderus (Hypoclinea) nigricornis 94  
 Dolichoderus (Hypoclinea) occidentalis 94  
 Dolichoderus (Hypoclinea) parvus 94  
 Dolichoderus (Hypoclinea) reflexus 94  
 Dolichoderus (Hypoclinea) scabridus ruficornis 94  
 Dolichoderus (Hypoclinea) tristis 93  
 Dolichoderus (Hypoclinea) ypsilon nigra 95  
 Dolichoderus (Hypoclinea) ypsilon rufotibialis 95  
 Dolichoderus kirbyi 95  
 Dolichoderus nigricornis 94  
 Dolichoderus occidentalis 94  
 Dolichoderus parvus 94  
 Dolichoderus reflexus 94  
 Dolichoderus scabridus 94  
 Dolichoderus scabridus ruficornis 94  
 Dolichoderus scabridus scabridus 94  
 Dolichoderus scabridus ypsilon 94  
 Dolichoderus scrobiculatus 94  
 Dolichoderus turneri 94  
 Dolichoderus ypsilon 94  
 Dolichoderus ypsilon nigra 95  
 Dolichoderus ypsilon rufotibialis 95  
 Dolichoderus ypsilon ypsilon 94  
 domestica, Iridomyrmex rufoniger 102  
 donisthorpei, Monomorium 70  
 donisthorpei, Monomorium (Mitara) 70  
 doriae dentatus, Dolichoderus 93  
 doriae, Dolichoderus 93  
 doriae extensispinia, Dolichoderus 93  
 dorycus, Camponotus 112  
 dorycus confusus, Camponotus 112  
 dorycus, Formica 112  
**DORYLINAE** 2, 52  
 Dorylozelus 32  
 Dorylozelus mjobergi 34  
 douglasi, Rhytidoponera 42, 43  
 dromas, Camponotus 112  
 dromas, Camponotus (Myrmocamelus) 112  
 dromus, Iridomyrmex 98  
 dromus, Phyracaces 25  
 dubia, Rhytidoponera 43  
 dubia, Rhytidoponera (Chalcoponera) 43  
 dubitata, Bothroponera 21  
 dubitata, Ponera (Bothroponera) 21  
 dubius, Opisthopsis diadematus 127  
 duchaussoyi, Eusphinctus 50  
 duchaussoyi, Sphinctomyrmex 50  
 duyfkeni, Meranoplus diversus 67  
 ebenina, Leptogenys 33  
 ebenina, Leptogenys (Lobopelta) 33  
 ebeninithorax, Camponotus capito 110  
 ebeninithorax, Camponotus (Myrmophyma) capito 110  
 eccentrica, Mesostruma 69  
 Echinopla 121  
 Echinopla australis 121  
 Echinopla turneri 121  
 Echinopla turneri pictipes 122  
 Echinopla turneri turneri 121  
 Ectatomma (Acanthoponera) imbellis hilare 30  
 Ectatomma aciculata 40  
 (Ectatomma) aurata, Ponera 41  
 Ectatomma convexum 42  
 Ectatomma cristatum 42  
 Ectatomma impressum 44  
 Ectatomma impressum purpureum 46  
 Ectatomma mayri 45  
 Ectatomma nudatum 46  
 Ectatomma punctata 46  
 Ectatomma (Rhytidoponera) convexum gemma 49  
 Ectatomma (Rhytidoponera) convexum nodiferum 46  
 Ectatomma (Rhytidoponera) convexum rufescens 47  
 Ectatomma (Rhytidoponera) convexum spatiatum 45  
 Ectatomma (Rhytidoponera) convexum violaceum 49  
 Ectatomma (Rhytidoponera) cornutum 42  
 Ectatomma (Rhytidoponera) cornutum taurus 48  
 Ectatomma (Rhytidoponera) crassinode 42  
 Ectatomma (Rhytidoponera) cristatum caro 40  
 Ectatomma (Rhytidoponera) cristatum punctiventris 46  
 Ectatomma (Rhytidoponera) cyrus 41  
 Ectatomma (Rhytidoponera) haeckeli 44  
 Ectatomma (Rhytidoponera) impressum splendidum 47  
 Ectatomma (Rhytidoponera) maniae 45  
 Ectatomma (Rhytidoponera) mayri glabrius 45  
 Ectatomma (Rhytidoponera) metallicum cristulatum 48  
 Ectatomma (Rhytidoponera) metallicum modestum 49  
 Ectatomma (Rhytidoponera) metallicum obscurum 41  
 Ectatomma (Rhytidoponera) metallicum scrobiculatum 49  
 Ectatomma (Rhytidoponera) reticulatum 47  
 Ectatomma (Rhytidoponera) rothneyi 46  
 Ectatomma (Rhytidoponera) scaberrimum 47  
 Ectatomma (Rhytidoponera) socrus 48  
 Ectatomma (Rhytidoponera) spoliatum 48  
 Ectatomma (Rhytidoponera) tenue 48  
 Ectatomma (Rhytidoponera) turneri 49  
 Ectatomma (Rhytidoponera) victoriae 49



- Ectatomma scabrum* 48  
*Ectatomma socialis* 23  
*ectatommoides*, *Camponotus* 125  
*ectatommoides*, *Notoncus* 125  
*Ectomomyrmex* 29  
*Ectomomyrmex ruficornis* 30  
*edentata*, *Syscia australis* 24  
*edentatus*, *Cerapachys* 24  
*elegans*, *Camponotus claripes* 111  
*elegans*, *Cerapachys* 25  
*elegans*, *Myrmecia* 8  
*elegans*, *Phyracaces* 25  
*elegans*, *Polyrhachis terpischoe* 141  
*elegans*, *Polyrhachis terpsichore* 141  
*elegans*, *Promyrmecia* 8  
*elegans*, *Stigmacros* 146  
*elegantulus*, *Orectognathus* 73  
*elliotti*, *Colobostruma* 60  
*elliotti*, *Epitritus* 60  
*elliptica*, *Hypoponera* 31  
*elliptica*, *Ponera truncata* 31  
*elongata grossestriata*, *Podomyrma* 82  
*elongata*, *Podomyrma* 81  
*emdeni*, *Strumigenys* 87  
*emeryi*, *Camponotus* 133  
*emeryi*, *Cerapachys* 25, 51  
*emeryi clarus*, *Cerapachys* 50  
*emeryi*, *Iridomyrmex* 98  
*emeryi myops*, *Sphinctomyrmex* 51  
*emeryi*, *Myrmecorhynchus* 125  
*emeryi*, *Phyracaces* 25  
*emmae*, *Epitritus* 85  
*emmae*, *Quadrstruma* 3, 85  
*enigmatica*, *Rhytidoponera* 43  
*enormis*, *Notoncus* 125  
*ephippium*, *Camponotus* 112  
*ephippium*, *Camponotus ephippium* 113  
*ephippium ephippium*, *Camponotus* 113  
*ephippium*, *Formica* 113  
*ephippium narses*, *Camponotus* 113  
*ephippium narses*, *Camponotus (Myrmocamelus)* 113  
*epinotalis*, *Stigmacros* 146  
*epinotalis*, *Stigmacros (Campostigmacros)* 146  
*Epitritus elliotti* 60  
*Epitritus emmae* 85  
*Epopostruma* 63  
*Epopostruma alinodis* 59  
*Epopostruma (Colobostruma) leae* 60  
*Epopostruma froggatti* 60  
*Epopostruma frosti* 63  
*Epopostruma monstrosa* 64  
*Epopostruma quadrispinosa* 64  
*Epopostruma quadrispinosa quadrispinosa* 64  
*(Epopostruma) quadrispinosa*, *Strumigenys* 64  
*(Epopostruma) turneri*, *Strumigenys* 69  
*erato*, *Polyrhachis* 133  
*eremicus*, *Camponotus* 113  
*eremicus*, *Camponotus (Myrmogonia)* 113  
*eremita*, *Rhytidoponera* 43  
*Erimelophorus* 122  
*erythrocephala*, *Formica* 103  
*erythrocephalus basirufus*, *Leptomyrmex* 103  
*erythrocephalus brunneiceps*, *Leptomyrmex* 103  
*erythrocephalus clarki*, *Leptomyrmex* 103  
*erythrocephalus cnemidatus*, *Leptomyrmex* 103  
*erythrocephalus decipiens*, *Leptomyrmex* 104  
*erythrocephalus erythrocephalus*, *Leptomyrmex* 103  
*erythrocephalus*, *Leptomyrmex* 103  
*erythrocephalus*, *Leptomyrmex erythrocephalus* 103  
*erythrocephalus mandibularis*, *Leptomyrmex* 104  
*erythrocephalus rufithorax*, *Leptomyrmex* 104  
*erythrocephalus unctus*, *Leptomyrmex* 104  
*erythrocephalus venustus*, *Leptomyrmex* 104  
*erythropus*, *Camponotus* 113  
*erythropus*, *Camponotus (Myrmosaga)* 113  
*erythropygus*, *Pristomyrmex* 85  
*esau*, *Camponotus* 113  
*esau*, *Camponotus (Myrmocamelus)* 113  
*esuriens*, *Myrmecia* 8  
*eubos*, *Pheidole bos* 75  
*Eubothroponera* 37  
*Eubothroponera bicolor* 38  
*Eubothroponera brunnipes* 37  
*Eubothroponera dentinodis* 37  
*Eubothroponera micans* 37  
*Eubothroponera reticulata* 38  
*Eubothroponera septentrionalis* 38  
*eudoxia*, *Myrmecia forficata* 7  
*eupoecila*, *Myrmecia* 9  
*eupoecila*, *Promyrmecia* 9  
*Euponera (Brachyponera) lutea clara* 23  
*Euponera (Brachyponera) luteipes croceicornis* 23  
*Euponera (Brachyponera) luteipes inops* 23  
*Euponera (Brachyponera) rufonigra* 52  
*Euponera (Trachymesopsus) rotundiceps* 28  
*Euponera (Trachymesopus) clarki* 52  
*Euponera (Trachymesopus) pachynoda* 52  
*Eurhopalothrix* 64  
*Eurhopalothrix australis* 64  
*Eurhopalothrix procera* 64  
*eurydice*, *Crematogaster (Atopogyne)* 61  
*eurydice*, *Crematogaster* 61  
*Eusphinctus ducharsoyi* 50  
*Eusphinctus (Eusphinctus) hackeri* 50  
*Eusphinctus (Eusphinctus) occidentalis* 51  
*(Eusphinctus) fallax cedaris*, *Sphinctomyrmex* 50  
*(Eusphinctus) fallax hedwigae*, *Sphinctomyrmex* 51  
*(Eusphinctus) fallax*, *Sphinctomyrmex* 51  
*Eusphinctus fulvipes* 51  
*(Eusphinctus) hackeri*, *Eusphinctus* 50  
*Eusphinctus hirsutus* 51  
*Eusphinctus (Nothosphinctus) brunnicornis* 50  
*Eusphinctus (Nothosphinctus) fulvidus* 50  
*Eusphinctus (Nothosphinctus) manni* 50  
*Eusphinctus (Nothosphinctus) nigricans* 51  
*Eusphinctus (Nothosphinctus) septentrionalis* 51  
*Eusphinctus (Nothosphinctus) silaceus* 50  
*(Eusphinctus) occidentalis*, *Eusphinctus* 51  
*(Eusphinctus) steinheili*, *Sphinctomyrmex* 51  
*euterpe*, *Polyrhachis* 133  
*evae*, *Camponotus* 113  
*evae*, *Camponotus evae* 113  
*evae evae*, *Camponotus* 113  
*evae zeuxis*, *Camponotus* 113  
*evae zeuxis*, *Camponotus (Myrmogonia)* 113  
*excavata acuticostata*, *Bothroponera* 21  
*excavata acuticostata*, *Ponera (Bothroponera)* 21  
*excavata*, *Bothroponera* 21  
*excavata*, *Bothroponera excavata* 21  
*excavata excavata*, *Bothroponera* 21

- excavata, Myrmecia 9  
 excavata, Promyrmecia 9  
 excavatus, Meranoplus 67  
 excisa excisa, Leptogenys 33  
 excisa, Leptogenys 33  
 excisa, Leptogenys excisa 33  
 excisa, Lobopelta 33  
 excisa major, Leptogenys 33  
 excisa major, Leptogenys (Lobopelta) 33  
 exedra, Poner 38  
 exigua, Amblyopone 19  
 exigua, Crematogaster xerophila 63  
 exigua, Leptogenys conigera 33  
 exigua, Leptogenys (Lobopelta) conigera 33  
 exigua, Myrmecia 9  
 exigua, Plagiolepis 130  
 exigua, Promyrmecia 9  
 exigua quadrimaculata, Plagiolepis 130  
 exiguus, Aenictus 53  
 exlex, Polyrhachis daemeli 133  
 exlex, Polyrhachis (Hedomyrma) daemeli 133  
 exolympica, Mesostruma 69  
 exsanguis, Iridomyrmex 98  
 extensispina, Dolichoderus doriae 93  
 extensispinus, Dolichoderus 93  
 extensus, Camponotus 113  
 extreminigra, Stigmacros 146  
 extreminigra, Stigmacros (Cyrtostigmacros) 146  
 extreminigrum, Monomorium rubriceps 58  
 extreminigrus, Chelaner rubriceps 58  
 exulans, Polyrhachis 133  
 exulans, Polyrhachis (Myrmhopla) 133  
  
 falcata, Schizopelta 56  
 falcatus, Chelaner 56  
 fallax cedaris, Sphinctomyrmex (Eusphinctus) 50  
 fallax fallax, Leptogenys 33  
 fallax fortior, Leptogenys 34  
 fallax fortior, Leptogenys (Lobopelta) 34  
 fallax hedwigae, Sphinctomyrmex (Eusphinctus) 51  
 fallax, Leptogenys 33  
 fallax, Leptogenys fallax 33  
 fallax, Lobopelta 33  
 fallax, Myrmecia 14  
 fallax, Sphinctomyrmex (Eusphinctus) 51  
 famelicus, Camponotus subnitidus 119  
 fasciata, Myrmecia 9  
 fascigaster, Leptomyrmex darlingtoni 103  
 fastuosa, Rhytidoponera (Chalcoponera) 42  
 femorata, Myrmecia (Pristomyrmecia) piliventris 10  
 femorata, Podomyrma 81  
 femorata, Polyrhachis 133  
 femoratus, Polyrhachis 133  
 fenestratus, Meranoplus 67  
 ferocior, Strumigenys 87  
 ferruginea, Amblyopone 19  
 ferruginea, Dacryon 81  
 ferruginea longidens, Amblyopone 20  
 ferruginea, Myrmecia 9  
 ferruginea, Myrmecia nigriceps 9  
 ferruginea, Podomyrma 81  
 ferruginea, Rhytidoponera 43  
 ferruginea, Stigmacros 146  
 ferruginea, Stigmacros (Cyrtostigmacros) 146  
 ferrugineus, Meranoplus 67  
 ferruginipes, Camponotus (Myrmosaga) 114  
 fervidus, Cerapachys 25  
 fervidus, Phyracaces 25  
 fici, Phyracaces 25  
 ficosus, Cerapachys 25  
 ficosus, Phyracaces 25  
 fictor augustulus, Camponotus 113  
 fictor augustulus, Camponotus (Colobopsis) 113  
 fictor, Camponotus 113  
 fictor, Camponotus (Colobopsis) 113  
 fictor, Camponotus fictor 113  
 fictor fictor, Camponotus 113  
 fida, Iridomyrmex darwinianus 97  
 fida, Tapinoma (Doleromyrma) darwinianum 97  
 fiedeae, Camponotus 113  
 fieldellus, Camponotus 114  
 fieldi fieldi, Melophorus 122  
 fieldi major, Melophorus 122  
 fieldi, Melophorus 122  
 fieldi, Melophorus fieldi 122  
 fieldi, Monomorium 70  
 fieldi, Monomorium (Martia) 70  
 fieldi propinqua, Melophorus 123  
 flagellatus, Codiomyrmex 64  
 flagellatus, Glamyromyrmex 64  
 flammeus, Cerapachys 25  
 flammeus, Phyracaces 25  
 flammicollis, Myrmecia 9  
 flava, Rhytidoponera 41  
 flava, Stigmacros 146  
 flava, Stigmacros (Cyrtostigmacros) 146  
 flavescens, Phyracaces 25  
 flavibasis, Polyrhachis 133  
 flavibasis, Polyrhachis (Campomyrma) 133  
 flavicoma flavicoma, Myrmecia 9  
 flavicoma minuscula, Myrmecia 9  
 flavicoma, Myrmecia 9  
 flavicoma, Myrmecia flavicoma 9  
 flavicornis flavicornis, Prolasius 142  
 flavicornis minor, Prolasius 142  
 flavicornis, Prolasius 142  
 flavicornis, Prolasius flavicornis 142  
 flavicornis, Rhytidoponera 43  
 flavidiscus, Prolasius 142  
 flavidopubescens, Camponotus aeneopilosus 109  
 flavigaster, Chelaner 56  
 flavigaster, Xiphomyrmex 56  
 flavinodis, Stigmacros 146  
 flavipes, Chalcoponera 43  
 flavipes, Chelaner 56  
 flavipes, Hypoclinea 98  
 flavipes, Iridomyrmex 98  
 flavipes, Monomorium (Notomyrmex) 56  
 flavipes, Rhytidoponera 43  
 flavus, Bothriomyrmex 92  
 flavus, Iridomyrmex 98  
 flindersi, Rhytidoponera 43  
 foetans, Iridomyrmex 96  
 forceps, Myrmecia 9  
 forceps obscuriceps, Myrmecia 9  
 foreli, Acantholepis (Stigmacros) 146  
 foreli acuminata, Notoncus 125  
 foreli, Chelaner 56  
 foreli dentata, Notoncus 125

- foreli, Monomorium (Holcomyrmex) 56  
foreli, Notoncus 125  
foreli, Notostigma 126  
foreli, Rhytidoponera 43  
foreli subdentata, Notoncus 125  
forficata brevinoda, Myrmecia 6  
forficata eudoxia, Myrmecia 7  
forficata, Formica 10  
forficata, Myrmecia 10  
forficata rubra, Myrmecia 10  
Formica aeneovirens 122  
Formica agilis 115  
Formica ammon 131  
Formica amyoti 149  
Formica anceps 96  
Formica arcuata 131  
Formica aurocincta 110  
Formica australis 29  
Formica consecrator 111  
Formica consobrina 111  
Formica cordata 97  
Formica cruentata 112  
Formica detecta 101  
Formica dorycus 112  
Formica ephippium 113  
Formica erythrocephala 103  
Formica forficata 10  
Formica gracilis 99  
Formica gulosa 11  
Formica hexacantha 135  
Formica inequalis 149  
Formica intrepida 115  
Formica itinerans 100  
Formica latreillii 136  
Formica longipes 107  
Formica macrocephala 100  
Formica maculata 116  
Formica minuta 149  
Formica (Myrmecopsis) respiciens 128  
Formica nigriceps 116  
Formica nigriventris 104  
Formica nigroaenea 117  
Formica nitida 116  
Formica nitidissima 143  
Formica piliventris 119  
Formica procidua 101  
Formica purpurea 101  
Formica purpurescens 149  
Formica rastellata 139  
Formica relucens 139  
Formica rufonigra 102  
Formica sexspinosa 140  
Formica smaragdina 127  
Formica smithii 101  
Formica suffusa 119  
Formica (Tapinoma) albiges 106  
Formica terebrans 120  
Formica testaceipes 120  
Formica virescens 127  
Formica viridis 127  
Formica vitrea 120  
**FORMICIDAE** 5  
**FORMICINAE** 2, 107  
**FORMICOIDEA** 1  
formicoides, Melophorus 143  
formicoides, Prolasius nitidissimus 143  
formosa, Myrmecia maura 12  
formosa, Myrmecia (Promyrmecia) aberrans 12  
formosa, Myrmica 81  
formosa, Podomyrma 81  
formosus, Dolichoderus 93  
formosus, Dolichoderus (Hypoclinea) 93  
fornicatus, Iridomyrmex 98  
fortior, Leptogenys fallax 34  
fortior, Leptogenys (Lobopelta) fallax 34  
fortirugis, Podomyrma 82  
fortis, Amblyopone australis 19  
fossulata, Acantholepis (Stigmacros) 146  
foveifrons, Pheidole deserticola 76  
foveolata, Amblyopone australis 19  
foveolata, Rhytidoponera 43  
foveolatus, Polyrhachis 94  
foveolatus, Pristomyrmex 85  
fraterculus barretti, Monomorium 70  
fraterculus barretti, Monomorium (Lampromyrmex) 70  
fraterculus fraterculus, Monomorium 70  
fraterculus, Monomorium 70  
fraterculus, Monomorium fraterculus 70  
fraterculus, Monomorium (Mitara) laeve 70  
fraudatrix, Melophorus iridescens 123  
frenchi, Turneria 107  
friedae, Strumigenys 87  
frivola, Crematogaster 61  
frivola, Crematogaster frivola 61  
frivola frivola, Crematogaster 61  
frivola sculpticeps, Crematogaster 61  
frivola sculpticeps, Crematogaster 61  
frivulus, Crematogaster 61  
Froggattella 95  
Froggattella kirbii 95  
Froggattella kirbii bispinosa 95  
Froggattella kirbii ianthina 95  
Froggattella kirbii kirbii 95  
Froggattella kirbii laticeps 95  
Froggattella kirbii lutescens 95  
Froggattella kirbii nigripes 95  
Froggattella kirbyi bispinosa 95  
Froggattella kirbyi ianthina 95  
Froggattella kirbyi laticeps 95  
Froggattella kirbyi lutescens 95  
Froggattella kirbyi nigripes 95  
Froggattella latispina 95  
froggatti, Acantholepis (Acrostigma) 146  
froggatti, Adlerzia 53  
froggatti, Camponotus 114  
froggatti, Colobostruma 60  
froggatti, Crematogaster sordidula 62  
froggatti, Crematogaster queenslandica 62  
froggatti, Epopostruma 60  
froggatti imbecilis, Sphinctomyrmex 50  
froggatti, Iridomyrmex 98  
froggatti, Leptomyrmex 104  
froggatti, Melophorus iridescens 123  
froggatti, Meranoplus 67  
froggatti, Monomorium (Adlerzia) 53  
froggatti, Myrmecia 10  
froggatti, Pheidole 54  
froggatti, Polyrhachis 133  
froggatti scabrula, Crematogaster 63  
froggatti, Solenopsis 87



- froggatti, *Sphinctomyrmex* 50  
 froggatti, *Stigmatopon* 146  
 frontalis, *Pheidole longiceps* 77  
 frosti, *Epopostruma* 63  
 frosti, *Hexadactylus* 63  
 fucosa, *Myrmecia* 10  
 fucosa, *Myrmecia* (*Promyrmecia*) 10  
 (Fulakora) *gracilis*, *Amblyopone* 19  
 (Fulakora) *lucida*, *Amblyopone* 20  
 (Fulakora) *punctulata*, *Amblyopone* 20  
 fulgida, *Myrmecia* 10  
 fuliginosa, *Rhytidoponera* 43  
 fulviculilis, *Myrmecia* 10  
 fulviculilis, *Myrmecia* (*Pristomyrmecia*) *fulvipes* 10  
 fulvidus, *Eusphinctus* (*Nothosphinctus*) 50  
 fulvihirtus, *Melophorus* 123  
 fulvipes *barbata*, *Myrmecia* (*Promyrmecia*) 10  
 fulvipes *caelatinoda*, *Myrmecia* (*Promyrmecia*) 12  
 fulvipes, *Eusphinctus* 51  
 fulvipes *fulviculilis*, *Myrmecia* (*Pristomyrmecia*) 10  
 fulvipes *gilberti*, *Myrmecia* 10  
 fulvipes, *Myrmecia* 10  
 fusca, *Crematogaster* 61  
 fusca, *Crematogaster* 61  
 fuscipes, *Myrmecia* 8  
 fuscipes, *Polyrhachis* 133  
 fuscipes, *Tetramorium* 89  
 fuscipes, *Xiphomyrmex turneri* 89  
 fusciventris, *Iridomyrmex gracilis* 99  
 fusciventris, *Rhytidoponera cornuta* 48  
 fusciventris, *Solenopsis* 87
- gab *aegra*, *Polyrhachis* 134  
 gab *aegra*, *Polyrhachis* (*Chariomyrma*) 134  
 gab gab, *Polyrhachis* 134  
 gab, *Polyrhachis* 134  
 gab, *Polyrhachis* gab 134  
 gab, *Polyrhachis* *guerini* 134  
 gab *senilis*, *Polyrhachis* 134  
 gab *tripellis*, *Polyrhachis* (*Chariomyrma*) 134  
 gasseri *caloratus*, *Camponotus* 114  
 gasseri *caloratus*, *Camponotus* (*Colobopsis*) 114  
 gasseri, *Camponotus* 114  
 gasseri, *Camponotus* *gasseri* 114  
 gasseri, *Colobopsis* 114  
 gasseri *gasseri*, *Camponotus* 114  
 gasseri *lysias*, *Camponotus* 114  
 gasseri *lysias*, *Camponotus* (*Colobopsis*) 114  
 gasseri *obtusitruncatus*, *Camponotus* 114  
 gasseri *obtusitruncatus*, *Camponotus* (*Colobopsis*) 114  
 gellibrandi, *Pheidole* 76  
 gemma, *Ectatomma* (*Rhytidoponera*) *convexum* 49  
 gibbinotus, *Camponotus* 114  
 gigas, *Myrmecia* *pyriformis* 7  
 gilberti *annectens*, *Notoncus* 126  
 gilberti, *Chelaner* 56  
 gilberti, *Chelaner* *gilberti* 56  
 gilberti, *Crematogaster queenslandica* 62  
 gilberti *gilberti*, *Chelaner* 56  
 gilberti *gracilior*, *Notoncus* 126  
 gilberti, *Iridomyrmex* 98  
 gilberti *mediorubra*, *Monomorium* 56  
 gilberti *mediorubrus*, *Chelaner* 56
- gilberti, *Monomorium* 56  
 gilberti, *Myrmecia* 10  
 gilberti, *Myrmecia* *fulvipes* 10  
 gilberti, *Notoncus* 126  
 gilesi, *Cerapachys* 25  
 gilesi, *Phyracaces* 25  
 gingivalis, *Amblyopone* 19  
 glaber *clarithorax*, *Iridomyrmex* 99  
 glaber glaber, *Iridomyrmex* 99  
 glaber, *Iridomyrmex* 3, 99  
 glaber, *Iridomyrmex* glaber 99  
 glabra, *Hypoclinea* 99  
 glabrinota, *Polyrhachis* 134  
 glabrinotum, *Polyrhachis* (*Myrmhopla*) 134  
 glabrior, *Paratrechina braueri* 129  
 glabrior, *Prenolepis braueri* 129  
 glabrior, *Ectatomma* (*Rhytidoponera*) *mayri* 45  
*Glamyromyrmex* 64  
*Glamyromyrmex* *flagellatus* 64  
*Glamyromyrmex* *semicomptus* 64  
 glauerti, *Amblyopone* 19  
 glauerti, *Calomyrmex* 108  
 glauerti, *Dolichoderus* 93  
 glauerti, *Dolichoderus* (*Hypoclinea*) 93  
 glauerti, *Lithomyrmex* 19  
 glauerti, *Stigmatopon* 146  
 glauerti, *Stigmatopon* (*Cyrtostigmatopon*) 146  
*Gnamptogenys* 30  
*Gnamptogenys* *biroi* 30  
 godeffroyi, *Strumigenys* 87  
 (*Goniothorax*) *australis*, *Leptothorax* 65  
 goudiei, *Dolichoderus* 94  
 goudiei, *Dolichoderus* (*Hypoclinea*) 94  
 goudiei, *Promyrmecia* 17  
 gouldianus, *Camponotus* 114  
 gracilior, *Notoncus* *gilberti* 126  
 gracilis, *Amblyopone* 19  
 gracilis, *Amblyopone* (*Fulakora*) 19  
 gracilis, *Formica* 99  
 gracilis *fusciventris*, *Iridomyrmex* 99  
 gracilis *gracilis*, *Iridomyrmex* 99  
 gracilis, *Iridomyrmex* 99  
 gracilis, *Iridomyrmex* *gracilis* 99  
 gracilis *mayri*, *Iridomyrmex* 99  
 gracilis *minor*, *Iridomyrmex* 99  
 gracilis, *Myrmecia* 15  
 gracilis *nugenti*, *Podomyrma* 82  
 gracilis, *Podomyrma* 82  
 gracilis *rubriceps*, *Iridomyrmex* 99  
 gracilis *spurcus*, *Iridomyrmex* 99  
 graeffei, *Anochetus* 20  
 grandii, *Pheidole* *anthracina* 75  
 grandis, *Cerapachys* 25  
 grandis, *Phyracaces* 25  
 gratiosa, *Myrmecia* 11  
 gratiosa, *Myrmecina* 82  
 gratiosa, *Podomyrma* 82  
 gravis, *Polyrhachis* 134  
 gravis, *Polyrhachis* (*Campomyrma*) 134  
 greavesi, *Cerapachys* 25  
 greavesi, *Myrmecia* 11  
 greavesi, *Phyracaces* 25  
 greavesi, *Probolomyrmex* 39  
 greavesi, *Promyrmecia* 11  
 greavesi, *Rhytidoponera* 43

- greavesi, Teratomyrmex 149  
 gregoryi, Rhytidoponera 44  
 grossestriata, Podomyrma 82  
 grossestriata, Podomyrma elongata 82  
 guerini aurea, Polyrhachis 131  
 guerini gab, Polyrhachis 134  
 guerini guerini, Polyrhachis 134  
 guerini lata, Polyrhachis 134  
 guerini pallescens, Polyrhachis 134  
 guerini, Polyrhachis 134  
 guerini, Polyrhachis guerini 134  
 guerini vermiculosa, Polyrhachis 134  
 gulosa, Formica 11  
 gulosa, Myrmecia 11  
 gulosa obscurior, Myrmecia 11  
 guttulata, Strumigenys 87  
 gwynethae, Cerapachys 26  
 gwynethae, Neophyracaces 26  
  
 hackeri, Amblyopone 19  
 hackeri, Eusphinctus (Eusphinctus) 50  
 hackeri, Leptogenys 34  
 hackeri, Leptogenys (Lobopelta) 34  
 hackeri, Leptomyrmex nigriventris 104  
 hackeri, Mayriella abstinens 65  
 haddoni haddoni, Opisthopsis 127  
 haddoni, Opisthopsis 127  
 haddoni, Opisthopsis haddoni 127  
 haddoni rufoniger, Opisthopsis 127  
 haeckeli, Ectatomma (Rhytidoponera) 44  
 haeckeli, Rhytidoponera 44  
 haematosticta, Myrmecia (Promyrmecia) aberrans 12  
 Hagiomyrma 130  
 (Hagiomyrma) ammonooides crawleyi, Polyrhachis 131  
 Hagiostigmacros 144  
 (Hagiostigmacros) punctatissima, Stigmacros 148  
 (Hagiostigmacros) spinosa, Stigmacros 148  
 Halmamyrmecia 6  
 harderi, Myrmecia 11  
 harderi swalei, Myrmecia 16  
 hartmeyer, Iridomyrmex 99  
 hartmeyer, Pheidole 76  
 hartogi, Camponotus 114  
 hector, Polyrhachis 136  
 hecuba, Polyrhachis 134  
 hedleyi, Onychomyrmex 37  
 Hedomyrma 130  
 (Hedomyrma) aeschyle, Polyrhachis 131  
 (Hedomyrma) anguliceps, Polyrhachis 131  
 (Hedomyrma) barretti, Polyrhachis 132  
 (Hedomyrma) chrysorhax, Polyrhachis 132  
 (Hedomyrma) daemeli exlex, Polyrhachis 133  
 (Hedomyrma) humerosa, Polyrhachis 136  
 (Hedomyrma) kershawi, Polyrhachis 136  
 (Hedomyrma) machaon, Polyrhachis 137  
 (Hedomyrma) mjobergi, Polyrhachis 138  
 hedwigae, Sphinctomyrmex (Eusphinctus) fallax 51  
 heinlethii heinlethii, Polyrhachis 135  
 heinlethii, Polyrhachis 135  
 heinlethii, Polyrhachis heinlethii 135  
 heinlethii sophiae, Polyrhachis 135  
 hellenae, Prolasius 143  
 hemiflavus hemiflavus, Prolasius 143  
 hemiflavus, Prolasius 143  
 hemiflavus, Prolasius hemiflavus 143  
 hemiflavus wilsoni, Prolasius 143  
 hemiphacum, Monomorium (Notomyrmex) 57  
 herbertonensis, Hypoponera 31  
 herbertonensis, Ponera pruinosa 31  
 hermione cupreata, Polyrhachis 135  
 hermione hermione, Polyrhachis 135  
 hermione, Polyrhachis 135  
 hermione, Polyrhachis hermione 135  
 heros, Cerapachys 26  
 heros, Phyracaces 26  
 hestia, Polyrhachis semipolita 140  
 Heteroponera 30  
 Heteroponera imbellis 30  
 Heteroponera leae 30  
 Heteroponera relicta 30  
 hexacantha, Formica 135  
 hexacantha, Polyrhachis 135  
 Hexadaceton 63  
 Hexadaceton frosti 63  
 hickmani, Notoncus 126  
 hilare, Ectatomma (Acanthoponera) imbellis 30  
 hilli, Aenictus 53  
 hilli, Chalcopteromyrma 42  
 hilli, Meranoplus 67  
 hilli, Myrmecia 11  
 hilli, Promyrmecia 11  
 hilli, Rhytidoponera 44  
 hirsuta hirsuta, Polyrhachis 135  
 hirsuta, Myrmecia 11  
 hirsuta, Polyrhachis 135  
 hirsuta, Polyrhachis hirsuta 135  
 hirsuta quinqueidentata, Polyrhachis 135  
 hirsuta quinqueidentata, Polyrhachis (Campomyrma) 135  
 hirsuta, Stigmacros 147  
 hirsuta, Stigmacros (Chariostigmacros) 147  
 hirsutus, Eusphinctus 51  
 hirsutus hirsutus, Meranoplus 67  
 hirsutus, Melophorus 123  
 hirsutus, Meranoplus 67  
 hirsutus, Meranoplus hirsutus 67  
 hirsutus minor, Meranoplus 67  
 hirsutus, Pseudonotoncus 144  
 hirsutus rugosa, Meranoplus 67  
 (Holcomyrmex) armstrongi, Monomorium 56  
 (Holcomyrmex) foreli, Monomorium 56  
 (Holcomyrmex) niger, Monomorium 57  
 (Holcomyrmex) whitei, Monomorium 59  
 hookeri aerea, Polyrhachis 135  
 hookeri hookeri, Polyrhachis 135  
 hookeri lownei, Polyrhachis 135  
 hookeri obscura, Polyrhachis 135  
 hookeri, Polyrhachis 135  
 hookeri, Polyrhachis hookeri 135  
 horni, Camponotus 114  
 hospes, Meranoplus 67  
 howense, Monomorium (Notomyrmex) 56  
 howensis, Camponotus 115  
 howensis, Camponotus (Colobopsis) 115  
 howensis, Cheloner 56  
 howensis, Orectognathus 73  
 howensis, Orectognathus antennatus 73  
 humerosa, Polyrhachis 136  
 humerosa, Polyrhachis (Hedomyrma) 136  
 humilior, Camponotus maculatus 116

- humilior*, *Chelaner rothsteini* 58  
*humilior*, *Monomorium rothsteini* 58  
*(Hypoclinea) angusticornis*, *Dolichoderus* 93  
*(Hypoclinea) armstrongi*, *Dolichoderus* 93  
*Hypoclinea flavipes* 98  
*(Hypoclinea) formosus*, *Dolichoderus* 93  
*Hypoclinea glabra* 99  
*(Hypoclinea) glauerti*, *Dolichoderus* 93  
*(Hypoclinea) goudiei*, *Dolichoderus* 94  
*(Hypoclinea) nigricornis*, *Dolichoderus* 94  
*(Hypoclinea) occidentalis*, *Dolichoderus* 94  
*(Hypoclinea) parvus*, *Dolichoderus* 94  
*(Hypoclinea) reflexus*, *Dolichoderus* 94  
*(Hypoclinea) scabridus ruficornis*, *Dolichoderus* 94  
*Hypoclinea scrobiculata* 94  
*(Hypoclinea) tristis*, *Dolichoderus* 93  
*(Hypoclinea) ypsilon nigra*, *Dolichoderus* 95  
*(Hypoclinea) ypsilon rufotibialis*, *Dolichoderus* 95  
*Hypoponera* 31  
*Hypoconera congrua* 31  
*Hypoconera convexiuscula* 31  
*Hypoconera decora* 31  
*Hypoconera elliptica* 31  
*Hypoconera herbertonensis* 31  
*Hypoconera mackayensis* 31  
*Hypoconera mina* 31  
*Hypoconera queenslandensis* 31  
*Hypoconera rectidens* 31  
*Hypoconera scitula* 32  
*Hypoconera sulciceps* 32  
  
*ianthina*, *Froggattella kirbii* 95  
*ianthina*, *Froggattella kirbyi* 95  
*ilia ilia*, *Monomorium* 70  
*ilia lamingtonense*, *Monomorium* 70  
*ilia lamingtonensis*, *Monomorium (Mitara)* 70  
*ilia*, *Monomorium* 70  
*ilia*, *Monomorium ilia* 70  
*ilia*, *Monomorium (Martia)* 70  
*imbecilis*, *Sphinctomyrmex* 50  
*imbecilis*, *Sphinctomyrmex froggatti* 50  
*imbellis*, *Acanthoponera* 30  
*imbellis*, *Heteroponera* 30  
*imbellis hilare*, *Ectatomma (Acanthoponera)* 30  
*imbellis scabra*, *Acanthoponera (Anacanthoponera)* 30  
*impasta*, *Plagiolepis clarki* 130  
*impavidus*, *Calomyrmex* 108  
*impavidus*, *Camponotus* 108  
*impressa chalybaea*, *Rhytidoponera* 41  
*impressa*, *Rhytidoponera* 44  
*impressa*, *Stigmacros* 147  
*impressa*, *Stigmacros (Stigmacros)* 147  
*impressiceps*, *Pheidole* 76  
*impressum*, *Ectatomma* 44  
*impressum purpureum*, *Ectatomma* 46  
*impressum splendidum*, *Ectatomma (Rhytidoponera)* 47  
*impressum*, *Tetramorium* 89  
*impressus*, *Xiphomyrmex* 89  
*incerta*, *Iridomyrmex rufoniger* 102  
*Incertae sedis* 149  
*incertus*, *Iridomyrmex rufoniger* 102  
*incisa*, *Rhytidoponera* 44  
*inconspicua inconspicua*, *Polyrhachis* 136  
*inconspicua*, *Polyrhachis* 136  
  
*inconspicua*, *Polyrhachis inconspicua* 136  
*inconspicua subnitens*, *Polyrhachis* 136  
*inconspicuus*, *Phyracaces* 26  
*incontentus*, *Cerapachys* 26  
*incurvata*, *Pheidole* 76  
*indistincta*, *Acropyga* 107  
*inequalis*, *Formica* 149  
*inermis*, *Podomyrma* 82  
*inermis*, *Stigmacros* 147  
*inermis*, *Stigmacros (Pseudostigmacros)* 147  
*infima*, *Myrmecia* 11  
*infima*, *Myrmecia picta* 11  
*inflatus*, *Camponotus* 115  
*innexus*, *Camponotus* 115  
*innocens innocens*, *Iridomyrmex* 99  
*innocens*, *Iridomyrmex* 99  
*innocens*, *Iridomyrmex innocens* 99  
*innocens malandanus*, *Iridomyrmex* 99  
*inops*, *Euponera (Brachyponera) luteipes* 23  
*inornata*, *Rhytidoponera* 44  
*inornata*, *Rhytidoponera (Chalcoconera) metallica* 44  
*inquilina*, *Myrmecia* 11  
*insculpta*, *Solenopsis* 87  
*insculptus*, *Solenopsis* 87  
*insipidus*, *Camponotus* 115  
*insolescens*, *Chelaner* 57  
*insolescens*, *Monomorium (Notomyrmex)* 57  
*insularis*, *Chelaner* 57  
*insularis*, *Melophorus* 123  
*insularis*, *Monomorium (Notomyrmex)* 57  
*intacta*, *Acantholepis (Stigmacros) aemula* 147  
*intacta*, *Stigmacros* 147  
*integrum*, *Tapinoma minutum* 106  
*intermedia*, *Bothroponera piliventris* 22  
*intermedia*, *Ponera (Bothroponera) piliventris* 22  
*intrepida*, *Formica* 115  
*intrepidus bellicosus*, *Camponotus* 115  
*intrepidus*, *Camponotus* 115  
*intrepidus*, *Camponotus intrepidus* 115  
*intrepidus intrepidus*, *Camponotus* 115  
*intricata*, *Leptogenys* 34  
*intricata*, *Leptogenys (Lobopelta)* 34  
*inverallensis*, *Camponotus claripes* 111  
*io*, *Polyrhachis (Campomyrma) thalia* 141  
*io*, *Polyrhachis thalia* 141  
*iridescent fraudatrix*, *Melophorus* 123  
*iridescent froggatti*, *Melophorus* 123  
*iridescent iridescent*, *Melophorus* 123  
*iridescent*, *Melophorus* 123  
*iridescent*, *Melophorus iridescent* 123  
*iridescent*, *Myrmecocystus* 123  
*Iridomyrmex* 1, 3, 95  
*Iridomyrmex agilis* 96  
*Iridomyrmex albitarsus* 96  
*Iridomyrmex anceps* 96  
*Iridomyrmex arcadius* 96  
*Iridomyrmex bicknelli* 96  
*Iridomyrmex bicknelli azureus* 96  
*Iridomyrmex bicknelli bicknelli* 96  
*Iridomyrmex bicknelli brunneus* 96  
*Iridomyrmex bicknelli lutea* 96  
*Iridomyrmex bicknelli splendidus* 96  
*Iridomyrmex biconvexus* 96  
*Iridomyrmex chasei* 96, 97  
*Iridomyrmex chasei chasei* 97



- Iridomyrmex chasei concolor* 97  
*Iridomyrmex chasei yalgooensis* 97  
*Iridomyrmex conifer* 97  
*Iridomyrmex cordatus* 97  
*Iridomyrmex cordatus stewartii* 97  
*Iridomyrmex cyaneus* 97  
*Iridomyrmex darwinianus* 97  
*Iridomyrmex darwinianus darwinianus* 97  
*Iridomyrmex darwinianus fida* 97  
*Iridomyrmex darwinianus leae* 97  
*Iridomyrmex detectus castrae* 102  
*Iridomyrmex detectus sanguinea* 102  
*Iridomyrmex detectus viridiaeneus* 102  
*Iridomyrmex discors* 97  
*Iridomyrmex discors aeneogaster* 98  
*Iridomyrmex discors discors* 97  
*Iridomyrmex discors obscurior* 98  
*Iridomyrmex discors occipitalis* 98  
*Iridomyrmex dromus* 98  
*Iridomyrmex emeryi* 98  
*Iridomyrmex exsanguis* 98  
*Iridomyrmex flavipes* 98  
*Iridomyrmex flavus* 98  
*Iridomyrmex foetans* 96  
*Iridomyrmex fornicatus* 98  
*Iridomyrmex froggatti* 98  
*Iridomyrmex gilberti* 98  
*Iridomyrmex glaber* 3, 99  
*Iridomyrmex glaber clarithorax* 99  
*Iridomyrmex glaber glaber* 99  
*Iridomyrmex gracilis* 99  
*Iridomyrmex gracilis fusciventris* 99  
*Iridomyrmex gracilis gracilis* 99  
*Iridomyrmex gracilis mayri* 99  
*Iridomyrmex gracilis minor* 99  
*Iridomyrmex gracilis rubriceps* 99  
*Iridomyrmex gracilis spurcus* 99  
*Iridomyrmex hartmeyeri* 99  
*Iridomyrmex innocens* 99  
*Iridomyrmex innocens innocens* 99  
*Iridomyrmex innocens malandanus* 99  
*Iridomyrmex itinerans* 100  
*Iridomyrmex itinerans ballaratensis* 100  
*Iridomyrmex itinerans depilis* 100  
*Iridomyrmex itinerans itinerans* 100  
*Iridomyrmex itinerans perthensis* 100  
*Iridomyrmex longiceps* 100  
*Iridomyrmex macrocephalus* 100  
*Iridomyrmex mattirolai* 100  
*Iridomyrmex mattirolai continentis* 100  
*Iridomyrmex mattirolai mattirolai* 100  
*Iridomyrmex mattirolai parcens* 100  
*Iridomyrmex mattirolai splendens* 100  
*Iridomyrmex mjobergi* 100  
*Iridomyrmex nitida* 101  
*Iridomyrmex nitidiceps* 100  
*Iridomyrmex nitidus* 101  
*Iridomyrmex nitidus clitellarius* 101  
*Iridomyrmex nitidus nitidus* 101  
*Iridomyrmex nitidus queenslandensis* 101  
*Iridomyrmex obscurus* 101  
*Iridomyrmex prociduus* 101  
*Iridomyrmex punctatissimus* 101  
*Iridomyrmex purpureus* 101  
*Iridomyrmex purpureus castrae* 102  
*Iridomyrmex purpureus purpureus* 101  
*Iridomyrmex purpureus sanguinea* 102  
*Iridomyrmex purpureus viridiaeneus* 102  
*Iridomyrmex rostrinotus* 98  
*Iridomyrmex rufoniger* 102  
*Iridomyrmex rufoniger domestica* 102  
*Iridomyrmex rufoniger incerta* 102  
*Iridomyrmex rufoniger incertus* 102  
*Iridomyrmex rufoniger pallidus* 102  
*Iridomyrmex rufoniger rufoniger* 102  
*Iridomyrmex rufoniger septentrionalis* 102  
*Iridomyrmex rufoniger suchieri* 102  
*Iridomyrmex rufoniger victorianus* 102  
*Iridomyrmex vicina* 103  
*Iridomyrmex viridigaster* 103  
*(Ischnomyrmex) longiceps ruginota, Stenamma* 54  
*ithona, Polyrhachis* 136  
*ithonus, Polyrhachis* 136  
*itinerans ballaratensis, Iridomyrmex* 100  
*itinerans depilis, Iridomyrmex* 100  
*itinerans, Formica* 100  
*itinerans, Iridomyrmex* 100  
*itinerans, Iridomyrmex itinerans* 100  
*itinerans itinerans, Iridomyrmex* 100  
*itinerans perthensis, Iridomyrmex* 100  
*jacksoniana, Polyrhachis* 136  
*janeti, Camponotus* 115  
*javana cairnsiana, Pheidole* 76  
*jocosus, Opisthopsis* 127  
*jocosus, Technomyrmex* 106  
*jovis, Cerapachys* 26  
*jovis, Cerapachys (Phyracaces)* 26  
*jucundus, Leptomyrmex darlingtoni* 103  
*kanangra, Orectognathus* 73  
*katerinae, Stenothorax* 53  
*kershawi, Polyrhachis* 136  
*kershawi, Polyrhachis (Hedomyrma)* 136  
*kiliani, Chelaner* 57  
*kiliani, Chelaner kiliani* 57  
*kiliani kiliani, Chelaner* 57  
*kiliani, Monomorium* 57  
*kiliani obscurella, Monomorium* 57  
*kiliani obscurellus, Chelaner* 57  
*kiliani tambourinensis, Chelaner* 57  
*kiliani tambourinensis, Monomorium* 57  
*kimberleyensis, Sima punctulata* 18  
*kimberleyensis, Tetraponera punctulata* 18  
*kirbii, Acantholepis* 95  
*kirbii bispinosa, Froggattella* 95  
*kirbii, Froggattella* 95  
*kirbii, Froggattella kirbii* 95  
*kirbii ianthina, Froggattella* 95  
*kirbii kirbii, Froggattella* 95  
*kirbii laticeps, Froggattella* 95  
*kirbii lutescens, Froggattella* 95  
*kirbii nigripes, Froggattella* 95  
*kirbyi bispinosa, Froggattella* 95  
*kirbyi, Dolichoderus* 95  
*kirbyi ianthina, Froggattella* 95  
*kirbyi laticeps, Froggattella* 95  
*kirbyi lutescens, Froggattella* 95

- kirbyi nigripes, Froggattella 95  
 kitschneri, Dacryon 82  
 kitschneri, Podomyrma 82  
 kraepelini, Podomyrma 82  
 kurandensis, Bothroponera sublaevis 22  
 kurandensis, Pachycondyla (Bothroponera) sublaevis 22  
 kurandensis, Rhytidoponera 44  
 kutteri, Cremastogaster 61  
 kutteri, Crematogaster 61
- lachesis, Polyrhachis 136  
 laciniosa malandensis, Rhytidoponera 47  
 laeve broomense, Monomorium (Mitara) 70  
 laeve fraterculus, Monomorium (Mitara) 70  
 laeve laeve, Monomorium 71  
 laeve, Monomorium 71  
 laeve, Monomorium laeve 71  
 laeve nigrius, Monomorium 71  
 laeve nigrius, Monomorium (Mitara) 71  
 laeviceps broomensis, Cremastogaster 61  
 laeviceps broomensis, Crematogaster 61  
 laeviceps chasei, Cremastogaster 61  
 laeviceps chasei, Crematogaster 61  
 laeviceps clarior, Cremastogaster 61  
 laeviceps clarior, Crematogaster 61  
 laeviceps, Crematogaster 61  
 laeviceps, Crematogaster laeviceps 61  
 laeviceps laeviceps, Crematogaster 61  
 laeviceps, Pseudomyrma 18  
 laeviceps, Tetraponera 18  
 laevigata, Mesostruma 69  
 laevinodis, Promyrmecia 12  
 laevisima, Podomyrma 82  
 laevisima, Polyrhachis 137  
 lamellinodis, Rhytidoponera 44  
 lamellinodis, Rhytidoponera (Chalcoponera) 44  
 lamingtonense, Monomorium ilia 70  
 lamingtonensis, Monomorium (Mitara) ilia 70  
 (Lampromyrmex) fraterculus barretti, Monomorium 70  
 lampros, Podomyrma 82  
 lanaris, Stigmacros 147  
 lanaris, Stigmacros (Cyrstostigmacros) 147  
 lanuginosa, Triglyphothrix 91  
 lanuginosum, Tetramorium 91  
 larvatus, Cerapachys 26  
 larvatus, Phyracaces 26  
 lata, Polyrhachis guerini 134  
 laticephalum, Tetramorium 89  
 laticeps, Froggattella kirbyi 95  
 laticeps, Froggattella kirbyi 95  
 laticeps, Melophorus 123  
 laticeps, Rhytidoponera 44  
 latigena, Pheidole variabilis 78  
 latispina, Froggattella 95  
 latreillii, Formica 136  
 latreillii, Polyrhachis 136  
 latrunculus, Camponotus 115  
 latrunculus, Camponotus latrunculus 115  
 latrunculus, Camponotus (Myrmoturba) 115  
 latrunculus latrunculus, Camponotus 115  
 latrunculus victoriensis, Camponotus 115  
 latrunculus victoriensis, Camponotus (Myrmoturba) 115  
 latunei, Anochetus turneri 21  
 latus, Cerapachys 26
- leae, Acanthoponera (Anacanthoponera) 30  
 leae, Amblyopone 19  
 leae, Camponotus 116  
 leae, Camponotus (Myrmosphincta) 116  
 leae cedarensis, Polyrhachis 137  
 leae cedarensis, Polyrhachis (Campomyrma) 137  
 leae, Chelaner 57  
 leae, Colobostruma 60  
 leae, Discothyrea 29  
 leae, Epopostruma (Colobostruma) 60  
 leae, Heteroponera 30  
 leae, Iridomyrmex darwinianus 97  
 leae leae, Polyrhachis 136  
 leae, Lordomyrma 65  
 leae, Metapone 69  
 leae, Monomorium 57  
 leae norfolkensis, Ponera 38  
 leae oculata, Ponera 38  
 leae, Phyracaces 25  
 leae, Polyrhachis 136  
 leae, Polyrhachis leae 136  
 leae, Ponera 38  
 leae, Strumigenys 88  
 leda, Chelaner rothsteini 58  
 leda, Monomorium rothsteini 58  
 lepidus, Opisthopsis pictus 128  
 Leptanilla 2, 53  
 Leptanilla swani 53  
**LEPTANILLINAE 2**  
 Leptogenys 32  
 Leptogenys angustinoda 32  
 Leptogenys anitae 32  
 Leptogenys bidentata 32  
 Leptogenys chelifer 32  
 Leptogenys clarki 32  
 Leptogenys conigera 32  
 Leptogenys conigera adlerzi 33  
 Leptogenys conigera centralis 33  
 Leptogenys conigera conigera 32  
 Leptogenys conigera exigua 33  
 Leptogenys conigera mutans 33  
 Leptogenys darlingtoni 33  
 Leptogenys diminuta 33  
 Leptogenys diminuta yarrabahna 33  
 Leptogenys ebenina 33  
 Leptogenys excisa 33  
 Leptogenys excisa excisa 33  
 Leptogenys excisa major 33  
 Leptogenys fallax 33  
 Leptogenys fallax fallax 33  
 Leptogenys fallax fortior 34  
 Leptogenys hackeri 34  
 Leptogenys intricata 34  
 Leptogenys (Lobopelta) angustinoda 32  
 Leptogenys (Lobopelta) anitae 32  
 Leptogenys (Lobopelta) bidentata 32  
 Leptogenys (Lobopelta) conigera adlerzi 33  
 Leptogenys (Lobopelta) conigera centralis 33  
 Leptogenys (Lobopelta) conigera exigua 33  
 Leptogenys (Lobopelta) conigera mutans 33  
 Leptogenys (Lobopelta) darlingtoni 33  
 Leptogenys (Lobopelta) diminuta yarrabahna 33  
 Leptogenys (Lobopelta) ebenina 33  
 Leptogenys (Lobopelta) excisa major 33  
 Leptogenys (Lobopelta) fallax fortior 34

- Leptogenys (Lobopelta) hackeri 34  
 Leptogenys (Lobopelta) intricata 34  
 Leptogenys (Lobopelta) magna 34  
 Leptogenys (Lobopelta) mjobergi 34  
 Leptogenys (Lobopelta) neutralis 34  
 Leptogenys magna 34  
 Leptogenys mjobergi 34  
 Leptogenys neutralis 34  
 Leptogenys (Odontopelta) turneri longensis 34  
 Leptogenys sjostedti 34  
 Leptogenys tricola 34  
 Leptogenys turneri 34  
 Leptogenys turneri longensis 34  
 Leptogenys turneri turneri 34  
 Leptomyrme 103  
 Leptomyrme darlingtoni 103  
 Leptomyrme darlingtoni darlingtoni 103  
 Leptomyrme darlingtoni fascigaster 103  
 Leptomyrme darlingtoni jucundus 103  
 Leptomyrme erythrocephalus 103  
 Leptomyrme erythrocephalus basirufus 103  
 Leptomyrme erythrocephalus brunneiceps 103  
 Leptomyrme erythrocephalus clarki 103  
 Leptomyrme erythrocephalus cnemidatus 103  
 Leptomyrme erythrocephalus decipiens 104  
 Leptomyrme erythrocephalus erythrocephalus 103  
 Leptomyrme erythrocephalus mandibularis 104  
 Leptomyrme erythrocephalus rufithorax 104  
 Leptomyrme erythrocephalus unctus 104  
 Leptomyrme erythrocephalus venustus 104  
 Leptomyrme froggatti 104  
 Leptomyrme mjobergi 104  
 Leptomyrme nigriventris 104  
 Leptomyrme nigriventris hackeri 104  
 Leptomyrme nigriventris nigriventris 104  
 Leptomyrme nigriventris tibialis 104  
 Leptomyrme unicolor 105  
 Leptomyrme varians 105  
 Leptomyrme varians angusticeps 105  
 Leptomyrme varians quadricolor 105  
 Leptomyrme varians rothneyi 105  
 Leptomyrme varians ruficeps 105  
 Leptomyrme varians rufipes 105  
 Leptomyrme varians varians 105  
 Leptomyrme wiburdi 105  
 Leptomyrme wiburdi pictus 105  
 Leptomyrme wiburdi wiburdi 105  
 Leptothorax 64  
 Leptothorax australis 65  
 Leptothorax (Goniothorax) australis 65  
 Leptothorax nudus 55  
 levior, Polyrhachis 137  
 levior, Rhytidoponera punctata 42  
 levis, Diacamma australe 29  
 liber, Dacryon 83  
 libra, Podomyrma 83  
 lienosus, Opisthopsis 127  
 lineae, Meranoplus aureolus 66  
 Liometopum aeneum 101  
 Liomyrme (Machomyrma) dispar 65  
 Lioponera longitarsus 26  
 Lioponera longitarsus australis 26  
 lippulum, Monomorium 54  
 liteae, Pheidole 76  
 Lithomyrme 18  
 Lithomyrme glauerti 19  
 lividicoxis, Camponotus 116  
 lividicoxis, Camponotus (Myrmophyma) 116  
 lividipes, Camponotus nigriceps 117  
 (Lobopelta) angustinoda, Leptogenys 32  
 (Lobopelta) anitae, Leptogenys 32  
 (Lobopelta) bidentata, Leptogenys 32  
 Lobopelta conigera 32  
 (Lobopelta) conigera adlerzi, Leptogenys 33  
 (Lobopelta) conigera centralis, Leptogenys 33  
 (Lobopelta) conigera exigua, Leptogenys 33  
 (Lobopelta) conigera mutans, Leptogenys 33  
 (Lobopelta) darlingtoni, Leptogenys 33  
 (Lobopelta) diminuta yarrabahna, Leptogenys 33  
 (Lobopelta) ebenina, Leptogenys 33  
 Lobopelta excisa 33  
 (Lobopelta) excisa major, Leptogenys 33  
 Lobopelta fallax 33  
 (Lobopelta) fallax fortior, Leptogenys 34  
 (Lobopelta) hackeri, Leptogenys 34  
 (Lobopelta) intricata, Leptogenys 34  
 (Lobopelta) magna, Leptogenys 34  
 (Lobopelta) mjobergi, Leptogenys 34  
 (Lobopelta) neutralis, Leptogenys 34  
 lombokensis, Polyrhachis 137  
 lombokensis yarrabahensis, Polyrhachis 137  
 lombokensis yarrabahensis, Polyrhachis (Myrmatopa) 137  
 longensis, Leptogenys (Odontopelta) turneri 34  
 longensis, Leptogenys turneri 34  
 longiceps, Aphaenogaster 54  
 longiceps, Chelaner 57  
 longiceps, Crematogaster 62  
 longiceps, Crematogaster 61  
 longiceps, Crematogaster longiceps 62  
 longiceps curticeps, Crematogaster 62  
 longiceps doddi, Pheidole 77  
 longiceps frontalis, Pheidole 77  
 longiceps, Iridomyrme 100  
 longiceps longiceps, Crematogaster 62  
 longiceps longiceps, Pheidole 76  
 longiceps, Monomorium (Notomyrme) 57  
 longiceps, Myrmica 54  
 longiceps, Pheidole 76  
 longiceps, Pheidole longiceps 76  
 longiceps ruginota, Stenamma (Ischnomyrme) 54  
 longidens, Amblyopone 20  
 longidens, Amblyopone ferruginea 20  
 longinodis, Camponotus (Dinomyrme) subnitidus 119  
 longinodis, Camponotus subnitidus 119  
 longinodis, Myrmecia 12  
 longipes, Anoplolepis 3, 107  
 longipes, Formica 107  
 longipes, Polyrhachis (Campomyrma) 137  
 longitarsus australis, Lioponera 26  
 longitarsus, Cerapachys 26  
 longitarsus, Lioponera 26  
 Lordomyrma 65  
 Lordomyrma leae 65  
 Lordomyrma punctiventris 65  
 Lordomyrma rugosa 84  
 loweryi, Mesostroma 69  
 lownei, Camponotus 116  
 lownei, Polyrhachis hookeri 135  
 lucida, Amblyopone 20



- lucida*, *Amblyopone* (*Fulakora*) 20  
*lucida*, *Myrmecia* 10  
*lucidior*, *Camponotus wiederkehri* 121  
*lucidula*, *Plagiolepis* 130  
*ludius ludius*, *Melophorus* 123  
*ludius*, *Melophorus* 123  
*ludius*, *Melophorus ludius* 123  
*ludius sulla*, *Melophorus* 123  
*ludlowi*, *Myrmecia chasei* 7  
*lutea*, *Brachyponera* 23  
*lutea*, *Brachyponera lutea* 23  
*lutea clara*, *Brachyponera* 23  
*lutea clara*, *Euponera* (*Brachyponera*) 23  
*lutea*, *Iridomyrmex bicknelli* 96  
*lutea lutea*, *Brachyponera* 23  
*lutea*, *Myrmecia* 8  
*lutea*, *Ponera* 23  
*luteiforceps*, *Myrmecia* 12  
*luteiforceps*, *Promyrmecia* 12  
*luteipes croceicornis*, *Euponera* (*Brachyponera*) 23  
*luteipes inops*, *Euponera* (*Brachyponera*) 23  
*lutescens*, *Froggattella kirbii* 95  
*lutescens*, *Froggattella kirbyi* 95  
*lydiae*, *Polyrhachis schenkii* 139  
*lysias*, *Camponotus* (*Colobopsis*) *gasseri* 114  
*lysias*, *Camponotus gasseri* 114  
*lysistrata*, *Polyrhachis* 137  
*lysistrata*, *Polyrhachis* (*Myrmothrinax*) 137
- macareaveyi*, *Chelaner* 57  
*machaon*, *Polyrhachis* 137  
*machaon*, *Polyrhachis* (*Hedomyrma*) 137  
*Machomyrma* 65  
*Machomyrma dispar* 65  
*(Machomyrma) dispar*, *Liomyrmex* 65  
*Machomyrma silvestrii* 53  
*mackayensis*, *Camponotus reticulatus* 118  
*mackayensis*, *Hypoponera* 31  
*mackayensis*, *Pheidole ampla* 74  
*mackayensis*, *Ponera coarctata* 31  
*mackayi*, *Polyrhachis* 137  
*mackayi*, *Polyrhachis* (*Cyrtomyrma*) 137  
*macrocephala*, *Formica* 100  
*macrocephalus*, *Iridomyrmex* 100  
*macrophthalma*, *Podomyrma* 83  
*macrops*, *Cerapachys* 26  
*macrops*, *Neophracaces* 26  
*macrops*, *Nothomyrmecia* 5  
*macropus*, *Polyrhachis* 137  
*maculata*, *Formica* 116  
*maculata*, *Polyrhachis* (*Campomyrma*) *polymnia* 138  
*maculata*, *Polyrhachis polymnia* 138  
*maculatus*, *Camponotus* 116  
*maculatus discors*, *Camponotus* 112  
*maculatus humilior*, *Camponotus* 116  
*maculatus yarrabahensis*, *Camponotus* (*Myrmoturba*) 112  
*maculiventris*, *Podomyrma micans* 83  
*magna*, *Leptogenys* 34  
*magna*, *Leptogenys* (*Lobopelta*) 34  
*magnus*, *Camponotus* 115  
*magnus*, *Odontomachus coriarius* 36  
*major*, *Leptogenys excisa* 33  
*major*, *Leptogenys* (*Lobopelta*) *excisa* 33  
*major*, *Melophorus fieldi* 122  
*major*, *Opisthopsis* 128  
*major*, *Stigmacros* 147  
*major*, *Stigmacros* (*Cyrtostigmacros*) 147  
*malandanus*, *Iridomyrmex innocens* 99  
*malandensis*, *Myrmecia tarsata* 15  
*malandensis*, *Prionogenys podenzanai* 39  
*malandensis*, *Rhytidoponera laciniosa* 47  
*maledicta*, *Rhytidoponera* 44  
*maledicta*, *Rhytidoponera* (*Chalcopynura*) *victoriae* 44  
*maloni*, *Promyrmecia* 11  
*mamillatus*, *Acantholepis* 102  
*mandibularis*, *Amblyopone* 19  
*mandibularis aureorufa*, *Myrmecia* 12  
*mandibularis*, *Leptomyrmex erythrocephalus* 104  
*mandibularis*, *Myrmecia* 12  
*mandibularis postpetiolaris*, *Myrmecia* (*Promyrmecia*) 12  
*maniae*, *Ectatomma* (*Rhytidoponera*) 45  
*maniae*, *Rhytidoponera* 45  
*manni*, *Eusphinctus* (*Nothosphinctus*) 50  
*manni norfolkensis*, *Oligomyrmex* 72  
*marcens*, *Camponotus claripes* 111  
*marginata*, *Podomyrma* 83  
*marginata*, *Stigmacros* 147  
*marginata*, *Stigmacros* (*Campostigmacros*) 147  
*marginatus*, *Dacryon* 83  
*marius*, *Melophorus* 123  
*marmorata*, *Promyrmecia* 17  
*mars ajax*, *Meranoplus* 68  
*mars mars*, *Meranoplus* 68  
*mars*, *Meranoplus* 68  
*mars*, *Meranoplus mars* 68  
*(Martia) fieldi*, *Monomorium* 70  
*(Martia) ilia*, *Monomorium* 70  
*mattiroloi continentis*, *Iridomyrmex* 100  
*mattiroloi*, *Iridomyrmex* 100  
*mattiroloi*, *Iridomyrmex mattiroloi* 100  
*mattiroloi mattiroloi*, *Iridomyrmex* 100  
*mattiroloi parcons*, *Iridomyrmex* 100  
*mattiroloi splendens*, *Iridomyrmex* 100  
*maura formosa*, *Myrmecia* 12  
*maura maura*, *Myrmecia* 12  
*maura*, *Myrmecia* 12  
*maura*, *Myrmecia maura* 12  
*maura*, *Myrmecia* (*Promyrmecia*) *aberrans* 12  
*maurus*, *Opisthopsis* 128  
*mayri*, *Bothropone* 22  
*mayri*, *Ectatomma* 45  
*mayri glabius*, *Ectatomma* (*Rhytidoponera*) 45  
*mayri*, *Iridomyrmex gracilis* 99  
*mayri*, *Rhytidoponera* 45  
*mayri*, *Strumigenys* 87  
*Mayriella* 65  
*Mayriella abstinens* 65  
*Mayriella abstinens abstinens* 65  
*Mayriella abstinens hackeri* 65  
*Mayriella abstinens venustula* 66  
*Mayriella overbecki* 65  
*Mayriella spinosior* 66  
*mediana*, *Rhytidoponera rothneyi* 46  
*mediofusca*, *Pheidole variabilis* 78  
*medioreticulata*, *Acantholepis* (*Stigmacros*) 147  
*medioreticulata*, *Stigmacros* 147  
*mediorubra*, *Monomorium gilberti* 56  
*mediorubra*, *Myrmecia pilosula* 7  
*mediorubrus*, *Chelaner gilberti* 56

- megalops, Tetramorium 89  
 melanaria australis, Poner 35  
 melleum, Tetramorium 86  
 melleus, Rhoptromyrmex 86  
 Melophorus 122  
 Melophorus aeneovirens 122  
 Melophorus bagoti 122  
 Melophorus biroi 122  
 (Melophorus) brunea, Melophorus 122  
 Melophorus bruneus 122  
 Melophorus constans 122  
 Melophorus curtus 122  
 Melophorus depressiceps 142  
 Melophorus fieldi 122  
 Melophorus fieldi fieldi 122  
 Melophorus fieldi major 122  
 Melophorus fieldi propinqua 123  
 Melophorus formicoides 143  
 Melophorus fulvhiirtus 123  
 Melophorus hirsutus 123  
 Melophorus insularis 123  
 Melophorus iridescens 123  
 Melophorus iridescens fraudatrix 123  
 Melophorus iridescens froggatti 123  
 Melophorus iridescens iridescens 123  
 Melophorus laticeps 123  
 Melophorus ludius 123  
 Melophorus ludius ludius 123  
 Melophorus ludius sulla 123  
 Melophorus marius 123  
 Melophorus (Melophorus) brunea 122  
 Melophorus mjobergi 123  
 Melophorus omniparens 124  
 Melophorus pillipes 124  
 Melophorus potteri 124  
 Melophorus scipio 124  
 Melophorus spinisquamis 126  
 Melophorus turneri 124  
 Melophorus turneri aesopus 124  
 Melophorus turneri candida 124  
 Melophorus turneri candidus 124  
 Melophorus turneri perthensis 124  
 Melophorus turneri turneri 124  
 Melophorus wheeleri 124  
 Meranoplus 66  
 Meranoplus aureolus 66  
 Meranoplus aureolus aureolus 66  
 Meranoplus aureolus doddi 66  
 Meranoplus aureolus liniae 66  
 Meranoplus barretti 66  
 Meranoplus crawleyi 68  
 Meranoplus dichrous 66  
 Meranoplus dimidiatus 66  
 Meranoplus diversus 66  
 Meranoplus diversus diversus 66  
 Meranoplus diversus duyffeni 67  
 Meranoplus diversus oxleyi 67  
 Meranoplus diversus unicolor 67  
 Meranoplus excavatus 67  
 Meranoplus fenestratus 67  
 Meranoplus ferrugineus 67  
 Meranoplus froggatti 67  
 Meranoplus hilli 67  
 Meranoplus hirsutus 67  
 Meranoplus hirsutus hirsutus 67  
 Meranoplus hirsutus minor 67  
 Meranoplus hirsutus rugosa 67  
 Meranoplus hospes 67  
 Meranoplus mars 68  
 Meranoplus mars ajax 68  
 Meranoplus mars mars 68  
 Meranoplus minimus 68  
 Meranoplus minor 68  
 Meranoplus mjobergi 68  
 Meranoplus oceanicus 68  
 Meranoplus pubescens 68  
 Meranoplus puryi 68  
 Meranoplus puryi curvispina 68  
 Meranoplus puryi puryi 68  
 Meranoplus similis 68  
 Meranoplus testudineus 68  
 mercovich, Amblyopone 20  
 Mesoponera 34  
 Mesoponera australis 35  
 Mesostruma 68  
 Mesostruma browni 69  
 Mesostruma eccentrica 69  
 Mesostruma exolympica 69  
 Mesostruma laevigata 69  
 Mesostruma loweryi 69  
 Mesostruma turneri 69  
 metallica aspera, Poner 40  
 metallica carbonaria, Chalcoconera 44  
 metallica inornata, Rhytidoponera (Chalcoconera) 44  
 metallica, Poner 45  
 metallica purpurascens, Rhytidoponera (Chalcoconera) 45  
 metallica, Rhytidoponera 45  
 metallica tasmaniensis, Rhytidoponera 48  
 metallica varians, Rhytidoponera (Chalcoconera) 45  
 metallicum cristulatum, Ectatomma (Rhytidoponera) 48  
 metallicum modestum, Ectatomma (Rhytidoponera) 49  
 metallicum obscurum, Ectatomma (Rhytidoponera) 41  
 metallicum scrobiculatum, Ectatomma (Rhytidoponera) 49  
 Metapone 69  
 Metapone leae 69  
 Metapone mjobergi 69  
 Metapone tillyardi 69  
 Metapone tricolor 69  
 micans, Eubothroponera 37  
 micans maculiventris, Podomyrma 83  
 micans micans, Podomyrma 83  
 micans micans, Polyrrhachis 137  
 micans ops, Polyrrhachis 137  
 micans, Platythyrea 37  
 micans, Podomyrma 83  
 micans, Podomyrma micans 83  
 micans, Polyrrhachis 137  
 micans, Polyrrhachis micans 137  
 micans, Rhytidoponera 45  
 micans sericeiventris, Podomyrma 80  
 michaelsoni, Amblyopone 20  
 michaelsoni, Camponotus 116  
 michaelsoni michaelsoni, Myrmecia 12  
 michaelsoni, Myrmecia 12  
 michaelsoni, Myrmecia michaelsoni 12  
 michaelsoni overbecki, Myrmecia 13  
 michaelsoni perthensis, Myrmecia 12  
 michaelsoni queenslandica, Myrmecia 12

- michaelsoni rugosa, Myrmecia (Promyrmecia) 15  
 (Micromyrmica) minutum cephalicum, Tapinoma 106  
 (Micromyrmica) rotnestense, Tapinoma 106  
 micron, Monomorium 71  
 midas, Camponotus 116  
 midas, Myrmecia 13  
 mina, Hypoponera 31  
 mina, Ponera 31  
 minima, Camponotus (Myrmophyma) claripes 111  
 minimus, Camponotus claripes 111  
 minimus, Meranoplus 68  
 minor, Amblyopone australis 19  
 minor, Iridomyrmex gracilis 99  
 minor, Meranoplus 68  
 minor, Meranoplus hirsutus 67  
 minor, Notoncus capitatus 125  
 minor, Prolasius flavicornis 142  
 minor, Stigmatos 147  
 minor, Stigmatos (Stigmatos) 147  
 minuscula, Myrmecia flavicoma 9  
 minuta, Formica 149  
 minutula, Paratrechina 129  
 minutula, Prenolepis 129  
 minutum broomense, Tapinoma 106  
 minutum broomensis, Tapinoma 106  
 minutum cephalicum, Tapinoma 106  
 minutum cephalicum, Tapinoma (Micromyrmica) 106  
 minutum integrum, Tapinoma 106  
 minutum minutum, Tapinoma 105  
 minutum, Tapinoma 105  
 minutum, Tapinoma minutum 105  
 mirabilis, Rhytidoponera 46  
 Mitara 70  
 (Mitara) donisthorpei, Monomorium 70  
 (Mitara) ilia lamingtonensis, Monomorium 70  
 (Mitara) laeve broomense, Monomorium 70  
 (Mitara) laeve fraterculus, Monomorium 70  
 (Mitara) laeve nigrius, Monomorium 71  
 (Mitara) sydneyense nigella, Monomorium 71  
 mixta, Crematogaster scita 63  
 mixta, Crematogaster scita 63  
 mjobergi, Cerapachys 26  
 mjobergi, Cerapachys (Phyracces) 26  
 mjobergi, Crematogaster 62  
 mjobergi, Crematogaster 62  
 mjobergi, Dacryon 83  
 mjobergi, Dorylozelus 34  
 mjobergi, Iridomyrmex 100  
 mjobergi, Leptogenys 34  
 mjobergi, Leptogenys (Lobopelta) 34  
 mjobergi, Leptomymex 104  
 mjobergi, Melophorus 123  
 mjobergi, Meranoplus 68  
 mjobergi, Metapone 69  
 mjobergi, Myrmecia 13  
 mjobergi, Notoncus 125  
 mjobergi, Oligomyrmex 72  
 mjobergi, Onychomyrmex 37  
 mjobergi, Orectognathus 73  
 mjobergi, Pheidole 77  
 mjobergi, Pheidole (Pheidolacanthinus) 77  
 mjobergi, Pheidologeton australis 79  
 mjobergi, Podomyrma 83  
 mjobergi, Polyrrhachis 138  
 mjobergi, Polyrrhachis (Hedomyrma) 138  
 mjobergi, Ponera 28  
 mjobergi, Prenolepis 143  
 mjobergi, Sphinctomyrmex 51  
 mjobergi, Sphinctomyrmex clarus 51  
 mjobergi unicolor, Orectognathus 73  
 mjobergella, Prenolepis 143  
 mjobergella, Prolasius 143  
 modestum, Ectatomma (Rhytidoponera) metallicum 49  
 moestus, Opisthopsis respiciens 128  
 molossus, Camponotus 116  
 moluccana, Acropyga 107  
 moluccana australis, Acropyga 107  
 Monomorium 70  
 Monomorium (Adlerzia) froggatti 53  
 Monomorium australicum 70  
 Monomorium bicornis 56  
 Monomorium broomense 70  
 Monomorium centrale 56  
 Monomorium donisthorpei 70  
 Monomorium fieldi 70  
 Monomorium fraterculus 70  
 Monomorium fraterculus barretti 70  
 Monomorium fraterculus fraterculus 70  
 Monomorium gilberti 56  
 Monomorium gilberti mediorubra 56  
 Monomorium (Holcomymex) armstrongi 56  
 Monomorium (Holcomymex) foreli 56  
 Monomorium (Holcomymex) niger 57  
 Monomorium (Holcomymex) whitei 59  
 Monomorium ilia 70  
 Monomorium ilia ilia 70  
 Monomorium ilia lamingtonense 70  
 Monomorium kiliani 57  
 Monomorium kiliani obscurella 57  
 Monomorium kiliani tambourinensis 57  
 Monomorium laeve 71  
 Monomorium laeve laeve 71  
 Monomorium laeve nigrius 71  
 Monomorium (Lampromymex) fraterculus barretti 90  
 Monomorium laeve 57  
 Monomorium lippulum 54  
 Monomorium (Marta) fieldi 70  
 Monomorium (Marta) ilia 70  
 Monomorium micron 71  
 Monomorium (Mitara) donisthorpei 70  
 Monomorium (Mitara) ilia lamingtonensis 70  
 Monomorium (Mitara) laeve broomense 70  
 Monomorium (Mitara) laeve fraterculus 70  
 Monomorium (Mitara) laeve nigrius 71  
 Monomorium (Mitara) sydneyense nigella 71  
 Monomorium (Notomyrmex) flavipes 56  
 Monomorium (Notomyrmex) hemiphaeum 57  
 Monomorium (Notomyrmex) howense 56  
 Monomorium (Notomyrmex) inolescens 57  
 Monomorium (Notomyrmex) insularis 57  
 Monomorium (Notomyrmex) longiceps 57  
 Monomorium (Notomyrmex) sanguinolentum 58  
 Monomorium (Notomyrmex) sculpturatum 58  
 Monomorium occidaneus 57  
 Monomorium (Paraholcomymex) rothsteini doddi 58  
 Monomorium rothsteini 58  
 Monomorium rothsteini humilior 58  
 Monomorium rothsteini leda 58  
 Monomorium rothsteini squamigena 58  
 Monomorium rothsteini tostum 58



- Monomorium rubriceps* 58  
*Monomorium rubriceps cinctum* 58  
*Monomorium rubriceps extremigrum* 58  
*Monomorium rubriceps rubra* 58  
*Monomorium sordidum* 59  
*Monomorium sordidum nigriventris* 59  
*Monomorium subapterum* 59  
*Monomorium subapterum bogischi* 59  
*Monomorium subcoecum australicum* 70  
*Monomorium sydneyense* 71  
*Monomorium sydneyense nigellum* 71  
*Monomorium sydneyense sydneyense* 71  
*monstrosa*, *Epopostruma* 64  
*muckeli*, *Podomyrma* 83  
*mullewanus*, *Cerapachys* 26  
*mullewanus*, *Phyracaces* 26  
*murina*, *Bothroponera sublaevis* 22  
*murina*, *Myrmecia* 15  
*murina*, *Pachycondyla* (*Bothroponera*) *sublaevis* 22  
*musgravei*, *Myrmecorhynchus* 125  
*mutans*, *Calomyrmex splendidus* 108  
*mutans*, *Camponotus* (*Calomyrmex*) *splendidus* 108  
*mutans*, *Leptogenys conigera* 33  
*mutans*, *Leptogenys* (*Lobopelta*) *conigera* 33  
*Myopias* 35  
*Myopias tasmaniensis* 35  
*Myopopone* 35  
*Myopopone castanea* 35  
*myoporus*, *Camponotus* 116  
*myoporus*, *Camponotus* (*Tanaemyrmex*) 116  
*myops*, *Acropyga* 107  
*myops*, *Pheidole* 54  
*myops*, *Sphinctomyrmex* 51  
*myops*, *Sphinctomyrmex emeryi* 51  
(*Myrmamblys*) *aurofasciatus*, *Camponotus* 115  
(*Myrmatopa*) *lombokensis yarrabahensis*, *Polyrhachis* 137  
*Myrmecia* 2, 3, 6  
*Myrmecia aberrans* 6  
*Myrmecia affinis* 16  
*Myrmecia analis* 6  
*Myrmecia arnoldi* 6  
*Myrmecia atrata* 6  
*Myrmecia atriscapa* 6  
*Myrmecia auriventris* 6  
*Myrmecia auriventris athertonensis* 6  
*Myrmecia brevinoda* 6  
*Myrmecia callima* 7  
*Myrmecia cardigaster* 7  
*Myrmecia celaena* 7  
*Myrmecia cephalotes* 7  
*Myrmecia chasei* 7  
*Myrmecia chasei chasei* 7  
*Myrmecia chasei ludlowi* 7  
*Myrmecia chrysogaster* 7  
*Myrmecia clarki* 7  
*Myrmecia comata* 7  
*Myrmecia cordata* 7  
*Myrmecia crassinoda* 14  
*Myrmecia crudelis* 16  
*Myrmecia cydista* 8  
*Myrmecia decipians* 8  
*Myrmecia desertorum* 8  
*Myrmecia dichospila* 8  
*Myrmecia dimidiata* 8  
*Myrmecia dispar* 8  
*Myrmecia dixonii* 8  
*Myrmecia elegans* 8  
*Myrmecia esuriens* 8  
*Myrmecia eupocila* 9  
*Myrmecia excavata* 9  
*Myrmecia exigua* 9  
*Myrmecia fallax* 14  
*Myrmecia fasciata* 9  
*Myrmecia ferruginea* 9  
*Myrmecia flammicollis* 9  
*Myrmecia flavicoma* 9  
*Myrmecia flavicoma flavicoma* 9  
*Myrmecia flavicoma minuscula* 9  
*Myrmecia forceps* 9  
*Myrmecia forceps obscuriceps* 9  
*Myrmecia forficata* 10  
*Myrmecia forficata brevinoda* 6  
*Myrmecia forficata eudoxia* 7  
*Myrmecia forficata rubra* 10  
*Myrmecia froggatti* 10  
*Myrmecia fucosa* 10  
*Myrmecia fulgida* 10  
*Myrmecia fulviculis* 10  
*Myrmecia fulvipes* 10  
*Myrmecia fulvipes gilberti* 10  
*Myrmecia fuscipes* 8  
*Myrmecia gilberti* 10  
*Myrmecia gracilis* 15  
*Myrmecia gratiosa* 11  
*Myrmecia greavesi* 11  
*Myrmecia gulosa* 11  
*Myrmecia gulosa obscurior* 11  
*Myrmecia harderi* 11  
*Myrmecia harderi swalei* 16  
*Myrmecia hillii* 11  
*Myrmecia hirsuta* 11  
*Myrmecia infima* 11  
*Myrmecia inquilina* 11  
*Myrmecia longinodis* 12  
*Myrmecia lucida* 10  
*Myrmecia lutea* 8  
*Myrmecia luteiforceps* 12  
*Myrmecia mandibularis* 12  
*Myrmecia mandibularis aureorufa* 12  
*Myrmecia maura* 12  
*Myrmecia maura formosa* 12  
*Myrmecia maura maura* 12  
*Myrmecia michaelsoni* 12  
*Myrmecia michaelsoni michaelsoni* 12  
*Myrmecia michaelsoni overbecki* 13  
*Myrmecia michaelsoni perthensis* 12  
*Myrmecia michaelsoni queenslandica* 12  
*Myrmecia midas* 13  
*Myrmecia mjobergi* 13  
*Myrmecia murina* 15  
*Myrmecia nigra* 13  
*Myrmecia nigriceps* 13  
*Myrmecia nigriceps ferruginea* 9  
*Myrmecia nigriscapa* 13  
*Myrmecia nigriventris* 16  
*Myrmecia nigrocincta* 13  
*Myrmecia nobilis* 13  
*Myrmecia occidentalis* 13  
*Myrmecia opaca* 13

- Myrmecia paucidens* 16  
*Myrmecia pavidia* 14  
*Myrmecia petiolata* 14  
*Myrmecia picta* 14  
*Myrmecia picta infima* 11  
*Myrmecia picta nigra* 13  
*Myrmecia picticeps* 14  
*Myrmecia piliventris* 14  
*Myrmecia piliventris rectidens* 14  
*Myrmecia pilosula* 14  
*Myrmecia pilosula mediorubra* 7  
*Myrmecia potteri* 14  
*Myrmecia princeps* 8  
*Myrmecia (Pristomyrmecia) fulvipes fulviculis* 10  
*Myrmecia (Pristomyrmecia) piliventris femorata* 10  
*Myrmecia (Pristomyrmecia) regina* 11  
*Myrmecia (Promyrmecia) aberrans formosa* 12  
*Myrmecia (Promyrmecia) aberrans haematosticta* 12  
*Myrmecia (Promyrmecia) aberrans maura* 12  
*Myrmecia (Promyrmecia) aberrans sericata* 10  
*Myrmecia (Promyrmecia) aberrans taylori* 10  
*Myrmecia (Promyrmecia) dichospila* 8  
*Myrmecia (Promyrmecia) fucosa* 10  
*Myrmecia (Promyrmecia) fulvipes barbata* 10  
*Myrmecia (Promyrmecia) fulvipes caelatinoda* 12  
*Myrmecia (Promyrmecia) mandibularis postpetiolaris* 12  
*Myrmecia (Promyrmecia) michaelseni rugosa* 15  
*Myrmecia pulchra* 14  
*Myrmecia pumilio* 17  
*Myrmecia pyriformis* 15  
*Myrmecia pyriformis gigas* 7  
*Myrmecia regularis* 15  
*Myrmecia rowlandi* 15  
*Myrmecia rubicunda* 15  
*Myrmecia rubripes* 15  
*Myrmecia rufinodis* 15  
*Myrmecia rufonigra* 17  
*Myrmecia rugosa* 15  
*Myrmecia sanguinea* 15  
*Myrmecia simillima* 16  
*Myrmecia singularis* 9  
*Myrmecia spadicea* 16  
*Myrmecia subfasciata* 16  
*Myrmecia suttoni* 16  
*Myrmecia swalei* 16  
*Myrmecia tarsata* 16  
*Myrmecia tarsata malandensis* 15  
*Myrmecia tarsata rowlandi* 15  
*Myrmecia tasmaniensis* 8  
*Myrmecia tepperi* 17  
*Myrmecia testaceipes* 17  
*Myrmecia tricolor* 16  
*Myrmecia tricolor rogeri* 16  
*Myrmecia urens* 17  
*Myrmecia varians* 17  
*Myrmecia vindex* 17  
*Myrmecia vindex basirufa* 17  
*Myrmecia vindex desertorum* 8  
*Myrmecia vindex vindex* 17  
*Myrmecia walkeri* 9  
**MYRMECINIINAE** 2, 6  
*Myrmecina* 71  
*Myrmecina gratiosa* 82  
*Myrmecina rugosa* 71  
*Myrmecocystus iridescens* 123  
*Myrmecopsis* 127  
*(Myrmecopsis) respiciens*, *Formica* 128  
*Myrmecorhynchus* 124  
*Myrmecorhynchus carteri* 124  
*Myrmecorhynchus emeryi* 125  
*Myrmecorhynchus musgravei* 125  
*Myrmecorhynchus nitidus* 125  
*Myrmecorhynchus rufithorax* 125  
*(Myrmhopla) barnardi*, *Polyrhachis* 132  
*(Myrmhopla) exulans*, *Polyrhachis* 133  
*(Myrmhopla) glabrinotum*, *Polyrhachis* 134  
*Myrmica adelaidae* 80  
*Myrmica bicarinata* 89  
*Myrmica formosa* 81  
*Myrmica longiceps* 54  
*Myrmica oblonga* 92  
*Myrmica simillima* 90  
**MYRMICINAE** 2, 53  
*Myrmocamelus* 109  
*(Myrmocamelus) bigenus*, *Camponotus* 110  
*(Myrmocamelus) cinereus amperei*, *Camponotus* 110  
*(Myrmocamelus) dromas*, *Camponotus* 112  
*(Myrmocamelus) ephippium narses*, *Camponotus* 113  
*(Myrmocamelus) esau*, *Camponotus* 113  
*(Myrmocamelus) pellax*, *Camponotus* 118  
*(Myrmogonia) armstrongi*, *Camponotus* 110  
*(Myrmogonia) cameratus*, *Camponotus* 110  
*(Myrmogonia) eremicus*, *Camponotus* 113  
*(Myrmogonia) evae zeuxis*, *Camponotus* 113  
*(Myrmogonia) oetkeri voltai*, *Camponotus* 117  
*(Myrmogonia) punctiventris*, *Camponotus* 118  
*(Myrmogonia) sanguinea*, *Camponotus* 118  
*(Myrmogonia) tumidus*, *Camponotus* 120  
*Myrmophyma* 109  
*(Myrmophyma) capito ebeninithorax*, *Camponotus* 110  
*(Myrmophyma) ceriseipes*, *Camponotus* 110  
*(Myrmophyma) chalcoides*, *Camponotus* 110  
*(Myrmophyma) claripes minima*, *Camponotus* 111  
*(Myrmophyma) claripes orbiculatopunctatus*, *Camponotus* 111  
*(Myrmophyma) claripes piperatus*, *Camponotus* 111  
*(Myrmophyma) darlingtoni*, *Camponotus* 120  
*(Myrmophyma) lividicoxis*, *Camponotus* 116  
*(Myrmophyma) nitidiceps*, *Camponotus* 117  
*(Myrmophyma) rotnesti*, *Camponotus* 120  
*(Myrmophyma) tristis*, *Camponotus* 120  
*(Myrmosaga) afflatus*, *Camponotus* 109  
*(Myrmosaga) chalceus*, *Camponotus* 110  
*(Myrmosaga) erythropus*, *Camponotus* 113  
*(Myrmosaga) ferruginipes*, *Camponotus* 114  
*(Myrmosaurus) scutellus*, *Camponotus* 121  
*(Myrmosaurus) versicolor*, *Camponotus* 120  
*(Myrmosericus) cruentatus aspera*, *Camponotus* 112  
*(Myrmosphincta) leae*, *Camponotus* 116  
*(Myrmosphincta) whitei*, *Camponotus* 121  
*(Myrmothrinax) lysistrata*, *Polyrhachis* 137  
*(Myrmoturba) latrunculus*, *Camponotus* 115  
*(Myrmoturba) latrunculus victoriensis*, *Camponotus* 115  
*(Myrmoturba) maculatus yarrabahensis*, *Camponotus* 112  
*(Myrmoturba) villosa*, *Camponotus* 120  
*Mystrium* 35  
*Mystrium camillae* 35  
*nana*, *Paratrechina* 129

- nana, Paratrechina (Nylanderia) 129  
 nancyae, Colobostruma 60  
 nanus, Orectognathus 73  
 narses, Camponotus ephippium 113  
 narses, Camponotus (Myrmocamelus) ephippium 113  
 Neoamblyopone 18  
 Neophyracaces 23  
 Neophyracaces gwynethae 26  
 Neophyracaces macrops 26  
 Neophyracaces piliventris 27  
 Neophyracaces potteri 27  
 nereis, Cardiocondyla nuda 55  
 neutralis, Leptogenys 34  
 neutralis, Leptogenys (Lobopelta) 34  
 newmani, Phyracaces 25  
 nigella, Monomorium (Mitara) sydneyense 71  
 nigellum, Monomorium sydneyense 71  
 niger, Monomorium (Holcomyrmex) 57  
 niger, Prolasius 143  
 nigra, Acanthoponera 30  
 nigra, Dolichoderus (Hypoclinea) ypsilon 95  
 nigra, Dolichoderus ypsilon 95  
 nigra, Myrmecia 13  
 nigra, Myrmecia picta 13  
 nigra, Rhytidoponera 42  
 nigricans, Eusphinctus (Nothosphinctus) 51  
 nigricans, Sphinctomyrmex 51  
 nigriceps, Camponotus 116  
 nigriceps, Camponotus nigriceps 116  
 nigriceps clarior, Camponotus 117  
 nigriceps ferruginea, Myrmecia 9  
 nigriceps, Formica 116  
 nigriceps lividipes, Camponotus 117  
 nigriceps, Myrmecia 13  
 nigriceps nigriceps, Camponotus 116  
 nigriceps obniger, Camponotus 117  
 nigriceps pallidiceps, Camponotus 117  
 nigricornis, Dolichoderus 94  
 nigricornis, Dolichoderus (Hypoclinea) 94  
 nigripes, Froggattella kirbyi 95  
 nigripes, Froggattella kirbyi 95  
 nigriscapa, Myrmecia 13  
 nigrius, Monomorium laeve 71  
 nigrius, Monomorium (Mitara) laeve 71  
 nigriventris, Cerapachys 27  
 nigriventris, Chelaner sordidus 59  
 nigriventris, Formica 104  
 nigriventris hackeri, Leptomyrmex 104  
 nigriventris, Leptomyrmex 104  
 nigriventris, Leptomyrmex nigriventris 104  
 nigriventris, Monomorium sordidum 59  
 nigriventris, Myrmecia 16  
 nigriventris nigriventris, Leptomyrmex 104  
 nigriventris, Orectognathus 73  
 nigriventris, Phyracaces 27  
 nigriventris, Prolasius 143  
 nigriventris tibialis, Leptomyrmex 104  
 nigroaenea, Formica 117  
 nigroaeneus, Camponotus 117  
 nigroaeneus, Camponotus nigroaeneus 117  
 nigroaeneus divus, Camponotus 117  
 nigroaeneus nigroaeneus, Camponotus 117  
 nigrocincta, Myrmecia 13  
 nitida, Dacryon 83  
 nitida, Formica 116  
 nitida, Iridomyrmex 101  
 nitida, Podomyrma 83  
 nitida, Rhytidoponera 46  
 nitida, Stigmacros 147  
 nitida, Stigmacros (Campostigmacros) 147  
 nitidiceps, Camponotus 117  
 nitidiceps, Camponotus (Myrmophyma) 117  
 nitidiceps, Iridomyrmex 100  
 nitidissima, Formica 143  
 nitidissimus formicoides, Prolasius 143  
 nitidissimus nitidissimus, Prolasius 143  
 nitidissimus, Prolasius 143  
 nitidissimus, Prolasius nitidissimus 143  
 nitidus clitellarius, Iridomyrmex 101  
 nitidus, Iridomyrmex 101  
 nitidus, Iridomyrmex nitidus 101  
 nitidus, Myrmecorhynchus 125  
 nitidus nitidus, Iridomyrmex 101  
 nitidus queenslandensis, Iridomyrmex 101  
 nobilis, Myrmecia 13  
 nobilis, Promyrmecia 13  
 nodifera, Rhytidoponera 46  
 nodiferum, Ectatomma (Rhytidoponera) convexum 46  
 norfolkensis, Oligomyrmex 72  
 norfolkensis, Oligomyrmex manni 72  
 norfolkensis, Pheidole ampla 79  
 norfolkensis, Ponera laeae 38  
 Nothomyrmecia 2, 3, 5  
 Nothomyrmecia macrops 5  
**NOTHOMYRMECIINAE** 2, 5  
 Nothosphinctus 49  
 (Nothosphinctus) brunnicornis, Eusphinctus 50  
 (Nothosphinctus) fulvidus, Eusphinctus 50  
 (Nothosphinctus) manni, Eusphinctus 50  
 (Nothosphinctus) nigricans, Eusphinctus 51  
 (Nothosphinctus) septentrionalis, Eusphinctus 51  
 (Nothosphinctus) silaceus, Eusphinctus 50  
 (Notomyrmex) flavipes, Monomorium 56  
 (Notomyrmex) hemiphaeum, Monomorium 57  
 (Notomyrmex) howense, Monomorium 56  
 (Notomyrmex) insolescens, Monomorium 57  
 (Notomyrmex) insularis, Monomorium 57  
 (Notomyrmex) longiceps, Monomorium 57  
 (Notomyrmex) sanguinolentum, Monomorium 58  
 (Notomyrmex) sculpturatum, Monomorium 58  
 Notoncus 125  
 Notoncus capitatus 125  
 Notoncus capitatus minor 125  
 Notoncus ectatommoides 125  
 Notoncus enormis 125  
 Notoncus foreli 125  
 Notoncus foreli acuminata 125  
 Notoncus foreli dentata 125  
 Notoncus foreli subdentata 125  
 Notoncus gilberti 126  
 Notoncus gilberti annectens 126  
 Notoncus gilberti gracilior 126  
 Notoncus hickmani 126  
 Notoncus mjobergi 125  
 Notoncus politus 126  
 Notoncus rodwayi 125  
 Notoncus rotundiceps 126  
 Notoncus spinisquamis 126  
 Notostigma 126  
 Notostigma carazzii 126



- Notostigma foreli* 126  
*Notostigma podenzanai* 126  
*Notostigma sanguinea* 126  
*notterae*, *Camponotus cinereus* 111  
*novae-hollandiae*, *Camponotus* 117  
*novemdentata*, *Podomyrma* 83  
*nox*, *Polyrhachis* 138  
*nox*, *Polyrhachis* (*Cyrtomyrma*) 138  
*nuda atalanta*, *Cardiocondyla* 55  
*nuda*, *Cardiocondyla* 55  
*nuda nereis*, *Cardiocondyla* 55  
*nuda*, *Podomyrma* 83  
*nudata*, *Rhytidoponera* 46  
*nudatum*, *Ectatomma* 46  
*nudimalis*, *Camponotus claripes* 111  
*nudus*, *Leptothorax* 55  
*nugenti*, *Podomyrma gracilis* 82  
*numeensis borealis*, *Rhytidoponera* (*Chalcoponera*) 41  
*nuntius*, *Camponotus scrutius* 118  
(*Nylanderia*) *nana*, *Paratrechina* 129  
(*Nylanderia*) *tasmaniensis*, *Prenolepis* 129  
*nynganensis*, *Plagiolepis* 130  
*Nystalomyrma* 54  
(*Nystalomyrma*) *barbigula*, *Aphaenogaster* 54  
  
*oblonga*, *Myrmica* 92  
*oblonga*, *Vollenhovia* 92  
*obniger*, *Camponotus nigriceps* 117  
*obscura*, *Amblyopone* 18  
*obscura*, *Odontomachus coriarius* 36  
*obscura*, *Paratrechina* 129  
*obscura*, *Podomyrma* 83  
*obscura*, *Polyrhachis hookeri* 135  
*obscura*, *Prenolepis* 129  
*obscura vaga*, *Prenolepis* 129  
*obscurella*, *Monomorium kiliani* 57  
*obscurellus*, *Cheloner kiliani* 57  
*obscuriceps*, *Myrmecia forceps* 9  
*obscurior*, *Iridomyrmex discors* 98  
*obscurior*, *Myrmecia gulosa* 11  
*obscurior*, *Podomyrma adelaidae* 80  
*obscurior*, *Podomyrma bimaculata* 80  
*obscurum*, *Ectatomma* (*Rhytidoponera*) *metallicum* 41  
*obscurus*, *Iridomyrmex* 101  
*obtusitruncatus*, *Camponotus* (*Colobopsis*) *gasseri* 114  
*obtusitruncatus*, *Camponotus gasseri* 114  
*occidaneus*, *Cheloner* 57  
*occidaneus*, *Monomorium* 57  
*occidentalis*, *Acantholepis* (*Stigmacros*) 147  
*occidentalis*, *Acanthoponera* 30  
*occidentalis*, *Dolichoderus* 94  
*occidentalis*, *Dolichoderus* (*Hypoclinea*) 94  
*occidentalis*, *Eusphinctus* (*Eusphinctus*) 51  
*occidentalis*, *Myrmecia* 13  
*occidentalis*, *Promyrmecia* 13  
*occidentalis*, *Rhytidoponera* 45  
*occidentalis*, *Sphinctomyrmex* 51  
*occidentalis*, *Stigmacros* 147  
*occipitalis*, *Iridomyrmex discors* 98  
*oceanicus*, *Meranoplus* 68  
*ocior*, *Pheidole variabilis* 78  
*Octella* 71  
(*Octella*) *pachycerus*, *Oligomyrmex* 72  
*octodentata*, *Podomyrma* 84  
  
*oculata*, *Ponera* 149  
*oculata*, *Ponera leae* 38  
*ocyma*, *Pheidole variabilis* 78  
*odae*, *Podomyrma* 84  
*Odontomachus* 36  
*Odontomachus cephalotes* 36  
*Odontomachus coriarius* 36  
*Odontomachus coriarius magnus* 36  
*Odontomachus coriarius obscura* 36  
*Odontomachus coriarius semicircularis* 36  
*Odontomachus ruficeps* 36  
*Odontomachus ruficeps acutidens* 36  
*Odontomachus ruficeps rubriceps* 36  
*Odontomachus ruficeps rufescens* 36  
*Odontomachus ruficeps turneri* 36  
*Odontomachus septentrionalis* 36  
*Odontomachus sharpei* 36  
*Odontomachus turneri* 36  
*Odontomyrmex* 84  
*Odontomyrmex quadridentatus* 85  
(*Odontomyrmex*) *quadridentatus queenslandensis*,  
*Pristomyrmex* 85  
*Odontopelta* 32  
(*Odontopelta*) *turneri longensis*, *Leptogenys* 34  
*Oecophylla* 126  
*Oecophylla smaragdina* 127  
*oetkeri*, *Camponotus* 117  
*oetkeri*, *Camponotus oetkeri* 117  
*oetkeri oetkeri*, *Camponotus* 117  
*oetkeri voltai*, *Camponotus* 117  
*oetkeri voltai*, *Camponotus* (*Myrmogonia*) 117  
*Oligomyrmex* 71  
*Oligomyrmex corniger* 72  
*Oligomyrmex corniger corniger* 72  
*Oligomyrmex corniger parvicornis* 72  
*Oligomyrmex manni norfolkensis* 72  
*Oligomyrmex mjobergi* 72  
*Oligomyrmex norfolkensis* 72  
*Oligomyrmex* (*Octella*) *pachycerus* 72  
*Oligomyrmex pachycerus* 72  
*omniparens*, *Dacryon* 84  
*omniparens*, *Melophorus* 124  
*omniparens*, *Podomyrma* 84  
*Onychomyrmex* 36  
*Onychomyrmex doddi* 37  
*Onychomyrmex hedleyi* 37  
*Onychomyrmex mjobergi* 37  
*opaca*, *Myrmecia* 13  
*opaca*, *Prionopelta* 39  
*opaca*, *Promyrmecia* 13  
*opaca*, *Strumigenys* 88  
*opacior*, *Rhytidoponera convexa* 49  
*opaciventris*, *Pheidole* 77  
*Opisthopsis* 127  
*Opisthopsis diadematus* 127  
*Opisthopsis diadematus diadematus* 127  
*Opisthopsis diadematus dubius* 127  
*Opisthopsis haddoni* 127  
*Opisthopsis haddoni haddoni* 127  
*Opisthopsis haddoni rufoniger* 127  
*Opisthopsis jocosus* 127  
*Opisthopsis lienosus* 127  
*Opisthopsis major* 128  
*Opisthopsis maurus* 128  
*Opisthopsis pictus* 128

- Opisthopsis pictus bimaculatus* 128  
*Opisthopsis pictus lepidus* 128  
*Opisthopsis pictus palliatus* 128  
*Opisthopsis pictus pictus* 128  
*Opisthopsis respiciens* 128  
*Opisthopsis respiciens moestus* 128  
*Opisthopsis respiciens respiciens* 128  
*Opisthopsis rufithorax* 128  
*ops*, *Polyrhachis micans* 137  
*orba*, *Pheidole anthracina* 75  
*orbiculatopunctatus*, *Camponotus claripes* 111  
*orbiculatopunctatus*, *Camponotus (Myrmophyma) claripes* 111  
*orbis*, *Rhopalothrix* 86  
*Orectognathus* 72  
*Orectognathus alligator* 72  
*Orectognathus antennatus* 72  
*Orectognathus antennatus howensis* 73  
*Orectognathus antennatus septentrionalis* 72  
*Orectognathus clarki* 72  
*Orectognathus coccinatus* 72  
*Orectognathus darlingtoni* 73  
*Orectognathus elegantulus* 73  
*Orectognathus howensis* 73  
*Orectognathus kanangra* 73  
*Orectognathus mjobergi* 73  
*Orectognathus mjobergi unicolor* 73  
*Orectognathus nanus* 73  
*Orectognathus nigriventris* 73  
*Orectognathus parvispinus* 73  
*Orectognathus perplexus* 88  
*Orectognathus phyllobates* 73  
*Orectognathus robustus* 74  
*Orectognathus rostratus* 74  
*Orectognathus satan* 74  
*Orectognathus sexspinosus* 74  
*Orectognathus versicolor* 74  
*ornata*, *Polyrhachis* 138  
*ornatum*, *Tetramorium* 90  
*(Orthocrema) rufotestacea dentinasis*, *Crematogaster* 63  
*overbecki*, *Mayriella* 65  
*overbecki*, *Myrmecia michaelsoni* 13  
*overbecki overbecki*, *Podomyrma* 84  
*overbecki*, *Peronomyrmex* 74  
*overbecki*, *Podomyrma* 84  
*overbecki*, *Podomyrma overbecki* 84  
*overbecki varicolor*, *Podomyrma* 84  
*oxleyi*, *Camponotus* 117  
*oxleyi*, *Meranoplus diversus* 67  
  
*pachycerus*, *Oligomyrmex* 72  
*pachycerus*, *Oligomyrmex (Octella)* 72  
*Pachycondyla astuta* 21  
*Pachycondyla (Bothroponera) barbata* 21  
*Pachycondyla (Bothroponera) piliventris regularis* 22  
*Pachycondyla (Bothroponera) sublaevis kurandensis* 22  
*Pachycondyla (Bothroponera) sublaevis murina* 22  
*Pachycondyla (Bothroponera) tasmaniensis* 38  
*Pachycondyla piliventris* 22  
*pachynoda*, *Euponera (Trachymesopus)* 52  
*pachynoda*, *Trachymesopus* 52  
*pacificum*, *Tetramorium* 90  
*pacificum validiusculum*, *Tetramorium* 91  
*pallescent*, *Polyrhachis guerini* 134  
  
*palliatus*, *Opisthopsis pictus* 128  
*pallida*, *Crematogaster* 62  
*pallidiceps*, *Camponotus nigriceps* 117  
*pallidipes*, *Crematogaster* 62  
*pallidus*, *Crematogaster* 62  
*pallidus*, *Iridomyrmex rufoniger* 102  
*pallidus*, *Prolasius* 143  
*pallipes*, *Crematogaster* 62  
*pallipes*, *Crematogaster* 62  
*papuanum*, *Proceratium* 40  
*papulata*, *Colobostruma* 60  
*(Paraholcomymex) rothsteini doddi*, *Monomorium* 58  
*parallela*, *Pheidole ampla* 79  
*parallela*, *Platythyrea* 37  
*parallela*, *Ponera* 37  
*Paranomopone* 30  
*Paranomopone relicta* 30  
*Paratrechina* 128  
*Paratrechina braueri* 129  
*Paratrechina braueri braueri* 129  
*Paratrechina braueri glabrior* 129  
*Paratrechina minutula* 129  
*Paratrechina nana* 129  
*Paratrechina (Nylanderia) nana* 129  
*Paratrechina obscura* 129  
*Paratrechina rosae* 129  
*Paratrechina tasmaniensis* 129  
*Paratrechina vaga* 129  
*parcens*, *Iridomyrmex mattirolai* 100  
*paripungens*, *Anochetus* 20  
*parva*, *Platythyrea* 37  
*parva*, *Podomyrma* 81  
*parviceps*, *Pheidole ampla* 74  
*parvicornis*, *Oligomyrmex corniger* 72  
*parvispina*, *Pheidole variabilis* 78  
*parvispinus*, *Orectognathus* 73  
*parvus*, *Dolichoderus* 94  
*parvus*, *Dolichoderus (Hypoclinea)* 94  
*patiens*, *Polyrhachis* 138  
*patiens*, *Polyrhachis (Campomyrma)* 138  
*paucidens*, *Myrmecia* 16  
*pavida*, *Myrmecia* 14  
*pellax*, *Camponotus* 118  
*pellax*, *Camponotus (Myrmocamelus)* 118  
*penelope*, *Polyrhachis* 138  
*peninsularis*, *Rhytidoponera* 46  
*Peronomyrmex* 74  
*Peronomyrmex overbecki* 74  
*perplexa*, *Strumigenys* 88  
*perplexus*, *Orectognathus* 88  
*perstictus*, *Sphinctomyrmex* 51  
*perthensis*, *Crematogaster* 62  
*perthensis*, *Iridomyrmex itinerans* 100  
*perthensis*, *Melophorus turneri* 124  
*perthensis*, *Myrmecia michaelsoni* 12  
*perthensis*, *Pheidole ampla* 75  
*perthensis*, *Polyrhachis (Campomyrma) sidnica* 140  
*perthensis*, *Polyrhachis sidnica* 140  
*petiolata*, *Myrmecia* 14  
*petiolata*, *Rhytidoponera* 45  
*(Pheidolacanthinus) mjobergi*, *Pheidole* 77  
*Pheidole* 3, 74  
*Pheidole ampla* 74  
*Pheidole ampla ampla* 74  
*Pheidole ampla mackayensis* 74

- Pheidole ampla norfolkensis* 79  
*Pheidole ampla parallela* 79  
*Pheidole ampla parviceps* 74  
*Pheidole ampla perthensis* 75  
*Pheidole ampla yarrensii* 79  
*Pheidole anthracina* 75  
*Pheidole anthracina anthracina* 75  
*Pheidole anthracina grandii* 75  
*Pheidole anthracina orba* 75  
*Pheidole athertonensis* 75  
*Pheidole athertonensis athertonensis* 75  
*Pheidole athertonensis cedarensis* 75  
*Pheidole athertonensis tambourinensis* 75  
*Pheidole bos* 75  
*Pheidole bos baucis* 75  
*Pheidole bos bos* 75  
*Pheidole bos eubos* 75  
*Pheidole brevicornis* 75  
*Pheidole cairnsiana* 76  
*Pheidole concentrica* 76  
*Pheidole concentrica concentrica* 76  
*Pheidole concentrica recurva* 76  
*Pheidole conficta* 76  
*Pheidole deserticola* 76  
*Pheidole deserticola deserticola* 76  
*Pheidole deserticola foveifrons* 76  
*Pheidole dolichocephala* 79  
*Pheidole froggatti* 54  
*Pheidole gellibrandi* 76  
*Pheidole hartmeyeri* 76  
*Pheidole impressiceps* 76  
*Pheidole incurvata* 76  
*Pheidole javana cairnsiana* 76  
*Pheidole liteae* 76  
*Pheidole longiceps* 76  
*Pheidole longiceps doddi* 77  
*Pheidole longiceps frontalis* 77  
*Pheidole longiceps longiceps* 76  
*Pheidole mjobergi* 77  
*Pheidole myops* 54  
*Pheidole opaciventris* 77  
*Pheidole (Pheidolacanthinus) mjobergi* 77  
*Pheidole platypus* 77  
*Pheidole proxima* 77  
*Pheidole proxima bombalensis* 77  
*Pheidole proxima proxima* 77  
*Pheidole proxima transversa* 77  
*Pheidole pyriformis* 77  
*Pheidole spinoda* 77  
*Pheidole tasmaniensis* 77  
*Pheidole tasmaniensis continentis* 78  
*Pheidole tasmaniensis tasmaniensis* 77  
*Pheidole trapezoidea* 78  
*Pheidole turneri* 78  
*Pheidole variabilis* 78  
*Pheidole variabilis ampla* 74  
*Pheidole variabilis latigena* 78  
*Pheidole variabilis mediofusca* 78  
*Pheidole variabilis ocior* 78  
*Pheidole variabilis ocyma* 78  
*Pheidole variabilis parvispina* 78  
*Pheidole variabilis praedo* 78  
*Pheidole variabilis redunda* 78  
*Pheidole variabilis rugociput* 78  
*Pheidole variabilis rugosula* 79  
*Pheidole variabilis variabilis* 78  
*Pheidole vigilans* 79  
*Pheidole wiesei* 79  
*Pheidologeton* 79  
*Pheidologeton affinis australis* 79  
*Pheidologeton australis* 79  
*Pheidologeton australis australis* 79  
*Pheidologeton australis mjobergi* 79  
*philiporum*, *Aenictus* 53  
*phryne*, *Polyrhachis* 138  
*phyllobates*, *Orectognathus* 73  
*Phyracaces aberrans* 23  
*(Phyracaces) adamus*, *Cerapachys* 24  
*Phyracaces angustatus* 24  
*Phyracaces bicolor* 24  
*(Phyracaces) binodis*, *Cerapachys* 24  
*Phyracaces brevicollis* 24  
*Phyracaces brevis* 24  
*Phyracaces castaneus* 24  
*Phyracaces clarki* 24  
*Phyracaces clarus* 27  
*Phyracaces constricta* 24  
*Phyracaces crassus* 24  
*Phyracaces dromus* 25  
*Phyracaces elegans* 25  
*Phyracaces emeryi* 25  
*Phyracaces fervidus* 25  
*Phyracaces fici* 25  
*Phyracaces ficosus* 25  
*Phyracaces flammeus* 25  
*Phyracaces flavescens* 25  
*Phyracaces gilesi* 25  
*Phyracaces grandis* 25  
*Phyracaces greavesi* 25  
*Phyracaces heros* 26  
*Phyracaces inconspicuus* 26  
*(Phyracaces) jovis*, *Cerapachys* 26  
*Phyracaces larvatus* 26  
*Phyracaces leae* 25  
*(Phyracaces) mjobergi*, *Cerapachys* 26  
*Phyracaces mullewanus* 26  
*Phyracaces newmani* 25  
*Phyracaces nigriventris* 27  
*Phyracaces picipes* 27  
*Phyracaces pictus* 27  
*Phyracaces princeps* 27  
*Phyracaces punctatissima* 27  
*Phyracaces pygmaeus* 26  
*Phyracaces reticulatus* 26  
*Phyracaces ruficornis* 27  
*Phyracaces rugulinodis* 27  
*Phyracaces scrutator* 25  
*Phyracaces senescens* 27  
*Phyracaces simmonsae* 28  
*(Phyracaces) singularis rotula*, *Cerapachys* 28  
*(Phyracaces) sjostedti*, *Cerapachys* 28  
*(Phyracaces) turneri*, *Cerapachys* 28  
*Phyracaces varians* 28  
*piceus*, *Crematogaster* 62  
*picipes*, *Cerapachys* 27  
*picipes*, *Phyracaces* 27  
*picta infima*, *Myrmecia* 11  
*picta*, *Myrmecia* 14  
*picta nigra*, *Myrmecia* 13  
*picticeps*, *Myrmecia* 14



- pictipes, *Echinopla turneri* 122  
 pictus bimaculatus, *Opisthopsis* 128  
 pictus, *Cerapachys* 27  
 pictus lepidus, *Opisthopsis* 128  
 pictus, *Leptomyrmech wiburdi* 105  
 pictus, *Opisthopsis* 128  
 pictus, *Opisthopsis pictus* 128  
 pictus palliatus, *Opisthopsis* 128  
 pictus, *Phyracaces* 27  
 pictus pictus, *Opisthopsis* 128  
 piliventris, *Bothroponera* 22  
 piliventris, *Bothroponera piliventris* 22  
 piliventris, *Cerapachys* 27  
 piliventris femorata, *Myrmecia (Pristomyrmecia)* 10  
 piliventris, *Formica* 119  
 piliventris intermedia, *Bothroponera* 22  
 piliventris intermedia, *Ponera (Bothroponera)* 22  
 piliventris, *Myrmecia* 14  
 piliventris, *Neophyracaces* 27  
 piliventris, *Pachycondyla* 22  
 piliventris piliventris, *Bothroponera* 22  
 piliventris rectidens, *Myrmecia* 14  
 piliventris regularis, *Bothroponera* 22  
 piliventris regularis, *Pachycondyla (Bothroponera)* 22  
 pillipes, *Melophorus* 124  
 pilosella, *Acantholepis (Stigmacros)* 147  
 pilosella, *Stigmacros* 147  
 pilosula mediorubra, *Myrmecia* 7  
 pilosula, *Myrmecia* 14  
 pilosula, *Rhytidoponera* 46  
 piperatus, *Camponotus claripes* 111  
 piperatus, *Camponotus (Myrmophyma) claripes* 111  
 Plagiolepis 129  
 Plagiolepis clarki 129, 130  
 Plagiolepis clarki clarki 130  
 Plagiolepis clarki impasta 130  
 Plagiolepis exigua 130  
 Plagiolepis exigua quadrimaculata 130  
 Plagiolepis lucidula 130  
 Plagiolepis nynganensis 130  
 Plagiolepis squamulosa 130  
 platypus, *Pheidole* 77  
 Platythyrea 37  
 Platythyrea brunnipes 37  
 Platythyrea cephalotes 37  
 Platythyrea dentinodis 37  
 Platythyrea micans 37  
 Platythyrea parallela 37  
 Platythyrea parva 37  
 Platythyrea pusilla australis 37  
 Platythyrea turneri 38  
 podenzanai, *Camponotus* 126  
 podenzanai malandensis, *Prionogenys* 39  
 podenzanai, *Notostigma* 126  
 podenzanai podenzanai, *Prionogenys* 39  
 podenzanai, *Prionogenys* 39  
 Podomyrma 79  
 Podomyrma abdominalis 80  
 Podomyrma abdominalis pulchra 80  
 Podomyrma adelaidae 80  
 Podomyrma adelaidae adelaidae 80  
 Podomyrma adelaidae brevidentata 80  
 Podomyrma adelaidae obscurior 80  
 Podomyrma basalis 80  
 Podomyrma bimaculata 80  
 Podomyrma bimaculata brevidentata 80  
 Podomyrma bimaculata obscurior 80  
 Podomyrma bispinosa 80  
 Podomyrma castanea 84  
 Podomyrma chasei 80  
 Podomyrma christae 81  
 Podomyrma clarki 81  
 Podomyrma convergens 81  
 Podomyrma delbruckii 81  
 Podomyrma densestrigosa 81  
 Podomyrma densestrigosa densestrigosa 81  
 Podomyrma densestrigosa teres 81  
 Podomyrma elongata 81  
 Podomyrma elongata grossestriata 82  
 Podomyrma femorata 81  
 Podomyrma ferruginea 81  
 Podomyrma formosa 81  
 Podomyrma fortirugis 82  
 Podomyrma gracilis 82  
 Podomyrma gracilis nugenti 82  
 Podomyrma gratiosa 82  
 Podomyrma grossestriata 82  
 Podomyrma inermis 82  
 Podomyrma kitscheneri 82  
 Podomyrma kraepelini 82  
 Podomyrma laevisima 82  
 Podomyrma lampros 82  
 Podomyrma libra 83  
 Podomyrma macrophthalma 83  
 Podomyrma marginata 83  
 Podomyrma micans 83  
 Podomyrma micans maculiventris 83  
 Podomyrma micans micans 83  
 Podomyrma micans sericeiventris 80  
 Podomyrma mjobergi 83  
 Podomyrma muckeli 83  
 Podomyrma nitida 83  
 Podomyrma novemdentata 83  
 Podomyrma nuda 83  
 Podomyrma obscura 83  
 Podomyrma octodentata 84  
 Podomyrma odae 84  
 Podomyrma omniparens 84  
 Podomyrma overbecki 84  
 Podomyrma overbecki overbecki 84  
 Podomyrma overbecki varicolor 84  
 Podomyrma parva 81  
 Podomyrma rugosa 84  
 Podomyrma striata 84  
 Podomyrma tricolor 84  
 Podomyrma turneri 84  
 podenzanai, *Prionogenys podenzanai* 39  
 politus, *Notoncus* 126  
 polymnia maculata, *Polyrhachis* 138  
 polymnia maculata, *Polyrhachis (Campomyrma)* 138  
 polymnia polymnia, *Polyrhachis* 138  
 polymnia, *Polyrhachis* 138  
 polymnia, *Polyrhachis polymnia* 138  
 Polyrhachis 130  
 Polyrhachis aeschyle 131  
 Polyrhachis ammon 131  
 Polyrhachis ammon ammon 131  
 Polyrhachis ammon angusta 131  
 Polyrhachis ammon angustata 131  
 Polyrhachis ammonoeides 131

- Polyrhachis ammonoeides ammonoeides* 131  
*Polyrhachis ammonoeides crawleyi* 131  
*Polyrhachis andromache* 136  
*Polyrhachis anguliceps* 131  
*Polyrhachis appendiculata* 131  
*Polyrhachis appendiculata appendiculata* 131  
*Polyrhachis appendiculata schoopae* 131  
*Polyrhachis arcuata* 131  
*Polyrhachis aurea* 131  
*Polyrhachis aurea aurea* 131  
*Polyrhachis aurea depilis* 132  
*Polyrhachis australis* 137  
*Polyrhachis barnardi* 132  
*Polyrhachis barretti* 132  
*Polyrhachis bedoti* 132  
*Polyrhachis bellicosa* 132  
*Polyrhachis bellicosus* 132  
*Polyrhachis (Campomyrma) flavibasis* 133  
*Polyrhachis (Campomyrma) gravis* 134  
*Polyrhachis (Campomyrma) hirsuta quinquentata* 135  
*Polyrhachis (Campomyrma) leae cedarensis* 137  
*Polyrhachis (Campomyrma) longipes* 137  
*Polyrhachis (Campomyrma) patiens* 138  
*Polyrhachis (Campomyrma) polymnia maculata* 138  
*Polyrhachis (Campomyrma) prometheus* 138  
*Polyrhachis (Campomyrma) sidnica perthensis* 140  
*Polyrhachis (Campomyrma) sidnica tambourinensis* 140  
*Polyrhachis (Campomyrma) thalia io* 141  
*Polyrhachis (Campomyrma) zimmerae* 141  
*Polyrhachis cataulacoidea* 132  
*Polyrhachis chalchas* 132  
*Polyrhachis (Chariomyrma) gab aegra* 134  
*Polyrhachis (Chariomyrma) gab tripellis* 134  
*Polyrhachis chrysothorax* 132  
*Polyrhachis cleopatra* 132  
*Polyrhachis clio* 132  
*Polyrhachis clotho* 132  
*Polyrhachis comata* 134  
*Polyrhachis connectens australiae* 139  
*Polyrhachis constricta* 132  
*Polyrhachis contemta* 133  
*Polyrhachis crawleyella* 134  
*Polyrhachis (Cyrtomyrma) doddi* 133  
*Polyrhachis (Cyrtomyrma) mackayi* 137  
*Polyrhachis (Cyrtomyrma) nox* 138  
*Polyrhachis (Cyrtomyrma) rastellata yorkana* 139  
*Polyrhachis (Cyrtomyrma) townsvillei* 141  
*Polyrhachis daemeli* 133  
*Polyrhachis daemeli argentosa* 133  
*Polyrhachis daemeli daemeli* 133  
*Polyrhachis daemeli exlex* 133  
*Polyrhachis delicata* 139  
*Polyrhachis doddi* 133  
*Polyrhachis erato* 133  
*Polyrhachis euterpe* 133  
*Polyrhachis exulans* 133  
*Polyrhachis femorata* 133  
*Polyrhachis femoratus* 133  
*Polyrhachis flavibasis* 133  
*Polyrhachis foveolatus* 94  
*Polyrhachis froggatti* 133  
*Polyrhachis fuscipes* 133  
*Polyrhachis gab* 134  
*Polyrhachis gab aegra* 134  
*Polyrhachis gab gab* 134  
*Polyrhachis gab senilis* 134  
*Polyrhachis glabrinota* 134  
*Polyrhachis gravis* 134  
*Polyrhachis guerini* 134  
*Polyrhachis guerini aurea* 131  
*Polyrhachis guerini gab* 134  
*Polyrhachis guerini guerini* 134  
*Polyrhachis guerini guerini lata* 134  
*Polyrhachis guerini pallescens* 134  
*Polyrhachis guerini vermiculosa* 134  
*Polyrhachis (Hagiomyrma) ammonoeides crawleyi* 131  
*Polyrhachis hector* 136  
*Polyrhachis hecuba* 134  
*Polyrhachis (Hedomyrma) aeschyle* 131  
*Polyrhachis (Hedomyrma) anguliceps* 131  
*Polyrhachis (Hedomyrma) barretti* 132  
*Polyrhachis (Hedomyrma) chrysothorax* 132  
*Polyrhachis (Hedomyrma) daemeli exlex* 133  
*Polyrhachis (Hedomyrma) humerosa* 136  
*Polyrhachis (Hedomyrma) kershawi* 136  
*Polyrhachis (Hedomyrma) machaon* 137  
*Polyrhachis (Hedomyrma) mjobergi* 138  
*Polyrhachis heinlethii* 135  
*Polyrhachis heinlethii heinlethii* 135  
*Polyrhachis heinlethii sophiae* 135  
*Polyrhachis hermione* 135  
*Polyrhachis hermione cupreata* 135  
*Polyrhachis hermione hermione* 135  
*Polyrhachis hexacantha* 135  
*Polyrhachis hirsuta* 135  
*Polyrhachis hirsuta hirsuta* 135  
*Polyrhachis hirsuta quinquentata* 135  
*Polyrhachis hookeri* 135  
*Polyrhachis hookeri aerea* 135  
*Polyrhachis hookeri hookeri* 135  
*Polyrhachis hookeri lownei* 135  
*Polyrhachis hookeri obscura* 135  
*Polyrhachis humerosa* 136  
*Polyrhachis inconspicua* 136  
*Polyrhachis inconspicua inconspicua* 136  
*Polyrhachis inconspicua subnitens* 136  
*Polyrhachis ithona* 136  
*Polyrhachis ithonus* 136  
*Polyrhachis jacksoniana* 136  
*Polyrhachis kershawi* 136  
*Polyrhachis lachesis* 136  
*Polyrhachis laevisima* 137  
*Polyrhachis latreillii* 136  
*Polyrhachis leae* 136  
*Polyrhachis leae cedarensis* 137  
*Polyrhachis leae leae* 136  
*Polyrhachis levior* 137  
*Polyrhachis lombokensis* 137  
*Polyrhachis lombokensis yarrabahensis* 137  
*Polyrhachis lysisstrata* 137  
*Polyrhachis machaon* 137  
*Polyrhachis mackayi* 137  
*Polyrhachis macropus* 137  
*Polyrhachis micans* 137  
*Polyrhachis micans micans* 137  
*Polyrhachis micans ops* 137  
*Polyrhachis mjobergi* 138  
*Polyrhachis (Myrmatopa) lombokensis yarrabahensis* 137  
*Polyrhachis (Myrmhopla) barnardi* 132  
*Polyrhachis (Myrmhopla) exulans* 133

- Polyrhachis (Myrmhopla) glabrinotum 134  
 Polyrhachis (Myrmothrinax) lysistrata 137  
 Polyrhachis nox 138  
 Polyrhachis ornata 138  
 Polyrhachis patiens 138  
 Polyrhachis penelope 138  
 Polyrhachis phryne 138  
 Polyrhachis polymnia 138  
 Polyrhachis polymnia maculata 138  
 Polyrhachis polymnia polymnia 138  
 Polyrhachis prometheus 138  
 Polyrhachis pseudothrinax 138  
 Polyrhachis punctiventris 138  
 Polyrhachis pyrrhus 139  
 Polyrhachis quadricuspis 139  
 Polyrhachis queenslandica 139  
 Polyrhachis rastellata 139  
 Polyrhachis rastellata yorkana 139  
 Polyrhachis relucens 139  
 Polyrhachis relucens australiae 139  
 Polyrhachis rowlandi 139  
 Polyrhachis schenkii 139  
 Polyrhachis schenkii lydiae 139  
 Polyrhachis schenkii schenkii 139  
 Polyrhachis schwiedlandi 139  
 Polyrhachis semiaurata 139  
 Polyrhachis semipolita 140  
 Polyrhachis semipolita hestia 140  
 Polyrhachis semipolita semipolita 140  
 Polyrhachis sempronia 140  
 Polyrhachis sexspinosus 140  
 Polyrhachis sidnica 140  
 Polyrhachis sidnica perthensis 140  
 Polyrhachis sidnica sidnica 140  
 Polyrhachis sidnica tambourinensis 140  
 Polyrhachis sokolova 140  
 Polyrhachis sokolova degener 140  
 Polyrhachis sokolova sokolova 140  
 Polyrhachis templi 140  
 Polyrhachis terpsichore elegans 141  
 Polyrhachis terpsichore 140  
 Polyrhachis terpsichore elegans 141  
 Polyrhachis terpsichore rufifemur 141  
 Polyrhachis terpsichore terpsichore 140  
 Polyrhachis thais 141  
 Polyrhachis thalia 141  
 Polyrhachis thalia io 141  
 Polyrhachis thalia thalia 141  
 Polyrhachis thusnelda 141  
 Polyrhachis townsvillei 141  
 Polyrhachis trapezoidea 141  
 Polyrhachis tubifera 141  
 Polyrhachis turneri 141  
 Polyrhachis urania 141  
 Polyrhachis zimmerae 141  
 Ponera 38  
 Ponera araneoides 40  
 Ponera (Bothroponera) dubitata 21  
 Ponera (Bothroponera) excavata acuticostata 21  
 Ponera (Bothroponera) piliiventris intermedia 22  
 Ponera (Bothroponera) porcata 22  
 Ponera (Bothroponera) sublaevis reticulata 22  
 Ponera clavicornis 38  
 Ponera coarctata mackayensis 31  
 Ponera congrua 31  
 Ponera decora 31  
 Ponera diminuta 33  
 Ponera (Ectatomma) aurata 41  
 Ponera exedra 38  
 Ponera leae 38  
 Ponera leae norfolkensis 38  
 Ponera leae oculata 38  
 Ponera lutea 23  
 Ponera melanaria australis 35  
 Ponera metallica 45  
 Ponera metallica aspera 40  
 Ponera mina 31  
 Ponera mjobergi 28  
 Ponera oculata 149  
 Ponera parallela 37  
 Ponera pruinosus herbertonensis 31  
 Ponera queenslandensis 31  
 Ponera rectidens 31  
 Ponera ruginoda 14  
 Ponera scitula 32  
 Ponera selenophora 38  
 Ponera sulcipectus 32  
 Ponera trigona convexuscula 31  
 Ponera truncata elliptica 31  
**PONERINAE** 2, 18  
 porcata, Bothroponera 22  
 porcata, Ponera (Bothroponera) 22  
 postcornutus, Camponotus 118  
 postcornutus, Camponotus (Tanaemyrmex) 118  
 postpetiolaris, Myrmecia (Promyrmecia) mandibularis 12  
 potteri, Cerapachys 27  
 potteri, Melophorus 124  
 potteri, Myrmecia 14  
 potteri, Neophyracaces 27  
 potteri, Promyrmecia 14  
 poultoni, Aphaenogaster 54  
 praedo, Pheidole variabilis 78  
 Prenolepis adlerzii 121  
 Prenolepis braueri 129  
 Prenolepis braueri glabrior 129  
 Prenolepis minutula 129  
 Prenolepis mjobergi 143  
 Prenolepis mjobergella 143  
 Prenolepis (Nylanderia) tasmaniensis 129  
 Prenolepis obscura 129  
 Prenolepis obscura vaga 129  
 Prenolepis rosae 129  
 princeps, Cerapachys 27  
 princeps, Myrmecia 8  
 princeps, Phyracaces 27  
 Prionogenys 39  
 Prionogenys podenzanai 39  
 Prionogenys podenzanai malandensis 39  
 Prionogenys podenzanai podonzanai 39  
 Prionopelta 39  
 Prionopelta opaca 39  
 Pristomyrmecia 6  
 (Pristomyrmecia) fulvipes fulviculidis, Myrmecia 10  
 (Pristomyrmecia) piliiventris femorata, Myrmecia 10  
 (Pristomyrmecia) regina, Myrmecia 11  
 Pristomyrmex 84  
 Pristomyrmex erythropygus 85  
 Pristomyrmex foveolatus 85  
 Pristomyrmex (Odontomyrmex) quadridentatus  
 queenslandensis 85



- Pristomyrmex quadridentatus* 85  
*Pristomyrmex thoracicus* 85  
*Pristomyrmex wheeleri* 85  
*Pristomyrmex wilsoni* 85  
*Probolomyrmex* 39  
*Probolomyrmex greavesi* 39  
*procera*, *Eurhopalothrix* 64  
*procera*, *Rhopalothrix* 64  
*Proceratium* 39  
*Proceratium papuanum* 40  
*Proceratium stictum* 40  
*procidua*, *Formica* 101  
*prociduus*, *Iridomyrmex* 101  
*Prodiscothyrea* 29  
*Prodiscothyrea velutina* 29  
*Prolasius* 142  
*Prolasius abruptus* 142  
*Prolasius antennata* 142  
*Prolasius antennatus* 142  
*Prolasius brunea* 142  
*Prolasius bruneus* 142  
*Prolasius clarki* 142  
*Prolasius convexus* 142  
*Prolasius depressiceps* 142  
*Prolasius depressiceps depressiceps* 142  
*Prolasius depressiceps similis* 142  
*Prolasius flavicornis* 142  
*Prolasius flavicornis flavicornis* 142  
*Prolasius flavicornis minor* 142  
*Prolasius flavidiscus* 142  
*Prolasius hellenae* 143  
*Prolasius hemiflavus* 143  
*Prolasius hemiflavus hemiflavus* 143  
*Prolasius hemiflavus wilsoni* 143  
*Prolasius mjoebergella* 143  
*Prolasius niger* 143  
*Prolasius nigriventris* 143  
*Prolasius nitidissimus* 143  
*Prolasius nitidissimus formicoides* 143  
*Prolasius nitidissimus nitidissimus* 143  
*Prolasius pallidus* 143  
*Prolasius quadrata* 143  
*Prolasius quadratus* 143  
*Prolasius reticulata* 143  
*Prolasius reticulatus* 143  
*Prolasius robustus* 144  
*Prolasius wheeleri* 144  
*prometheus*, *Polyrhachis* 138  
*prometheus*, *Polyrhachis* (*Campomyrma*) 138  
*Promyrmecia* 6  
*(Promyrmecia) aberrans formosa*, *Myrmecia* 12  
*(Promyrmecia) aberrans haematosticta*, *Myrmecia* 12  
*(Promyrmecia) aberrans maura*, *Myrmecia* 12  
*(Promyrmecia) aberrans sericata*, *Myrmecia* 10  
*(Promyrmecia) aberrans taylori*, *Myrmecia* 10  
*Promyrmecia callima* 7  
*Promyrmecia celaena* 7  
*Promyrmecia cephalotes* 7  
*Promyrmecia chrysogaster* 7  
*Promyrmecia cydista* 8  
*(Promyrmecia) dichospila*, *Myrmecia* 8  
*Promyrmecia dispar* 8  
*Promyrmecia dixonii* 8  
*Promyrmecia elegans* 8  
*Promyrmecia eupocila* 9  
*Promyrmecia excavata* 9  
*Promyrmecia exigua* 9  
*(Promyrmecia) fucosa*, *Myrmecia* 10  
*(Promyrmecia) fulvipes barbata*, *Myrmecia* 10  
*(Promyrmecia) fulvipes caelatinoda*, *Myrmecia* 12  
*Promyrmecia goudiei* 17  
*Promyrmecia greavesi* 11  
*Promyrmecia hilli* 11  
*Promyrmecia laevinodis* 12  
*Promyrmecia luteiforceps* 12  
*Promyrmecia maloni* 11  
*(Promyrmecia) mandibularis postpetiolaris*, *Myrmecia* 12  
*Promyrmecia marmorata* 17  
*(Promyrmecia) michaelsoni rugosa*, *Myrmecia* 15  
*Promyrmecia nobilis* 13  
*Promyrmecia occidentalis* 13  
*Promyrmecia opaca* 13  
*Promyrmecia potteri* 14  
*Promyrmecia rubicunda* 15  
*Promyrmecia ruginodis* 16  
*Promyrmecia scabra* 11  
*Promyrmecia shepherdii* 17  
*Promyrmecia testaceipes* 17  
*Promyrmecia wilsoni* 17  
*pronotalis*, *Rhytidoponera* 46  
*propinqua*, *Melophorus fieldi* 123  
*Protamblyopone* 18  
*Protholcomyrme* 55  
*proxima bombalensis*, *Pheidole* 77  
*proxima*, *Pheidole* 77  
*proxima*, *Pheidole proxima* 77  
*proxima proxima*, *Pheidole* 77  
*proxima*, *Stigmacros* 148  
*proxima*, *Stigmacros* (*Cyrtostigmacros*) 148  
*proxima transversa*, *Pheidole* 77  
*pruinosa herbertonensis*, *Ponera* 31  
*Pseudolasius* 144  
*Pseudolasius australis* 144  
*Pseudomyrma laeviceps* 18  
**PSEUDOMYRMECINAE** 2, 17  
*Pseudonotoncus* 144  
*Pseudonotoncus hirsutus* 144  
*Pseudonotoncus turneri* 144  
*Pseudopodomyrma* 80  
*Pseudopodomyrma clarki* 81  
*Pseudoponera chelifer* 32  
*Pseudostigmacros* 144  
*(Pseudostigmacros) inermis*, *Stigmacros* 147  
*pseudothrinax*, *Polyrhachis* 138  
*pubescens*, *Cryptocerus* 68  
*pubescens*, *Meranoplus* 68  
*pulchra*, *Chalcoptera* 45  
*pulchra*, *Myrmecia* 14  
*pulchra*, *Podomyrma abdominalis* 80  
*pumilio*, *Myrmecia* 17  
*punctata*, *Ectatomma* 46  
*punctata levior*, *Rhytidoponera* 42  
*punctata*, *Rhytidoponera* 46  
*punctatissima*, *Phyracaces* 27  
*punctatissima*, *Stigmacros* 148  
*punctatissima*, *Stigmacros* (*Hagiostigmacros*) 148  
*punctatissimus*, *Cerapachys* 27  
*punctatissimus*, *Iridomyrmex* 101  
*punctigera*, *Rhytidoponera* 46  
*punctiventris*, *Camponotus* 118

- punctiventris, Camponotus (Myrmogonia) 118  
 punctiventris, Ectatomma (Rhytidoponera) cristatum 46  
 punctiventris, Lordomyrma 65  
 punctiventris, Polyrhachis 138  
 punctiventris, Rhytidoponera 46  
 punctulata, Amblyopone 20  
 punctulata, Amblyopone (Fulakora) 20  
 punctulata kimberleyensis, Sima 18  
 punctulata kimberleyensis, Tetraponera 18  
 punctulata punctulata, Tetraponera 18  
 punctulata, Tetraponera 18  
 punctulata, Tetraponera punctulata 18  
 purpurascens, Rhytidoponera (Chalcoponera) metallica 45  
 purpurea, Formica 101  
 purpurea, Rhytidoponera 46  
 purpurescens, Formica 149  
 purpureum, Ectatomma impressum 46  
 purpureus, Calomyrmex 108  
 purpureus, Calomyrmex purpureus 108  
 purpureus, Camponotus 108  
 purpureus castrae, Iridomyrmex 102  
 purpureus, Iridomyrmex 101  
 purpureus, Iridomyrmex purpureus 101  
 purpureus purpureus, Calomyrmex 108  
 purpureus purpureus, Iridomyrmex 101  
 purpureus sanguinea, Iridomyrmex 102  
 purpureus smaragdina, Calomyrmex 108  
 purpureus viridiaeneus, Iridomyrmex 102  
 puryi curvispina, Meranoplus 68  
 puryi, Meranoplus 68  
 puryi, Meranoplus puryi 68  
 puryi puryi, Meranoplus 68  
 pusilla australis, Platythyrea 37  
 pusilla, Stigmacros 148  
 pusilla, Stigmacros (Stigmacros) 148  
 pusillum, Tapinoma 92  
 pusillus aequalis, Bothriomyrmex 92  
 pusillus, Bothriomyrmex 92  
 pusillus, Bothriomyrmex pusillus 92  
 pusillus pusillus, Bothriomyrmex 92  
 pygmaeus, Phyracaces 26  
 pyriformis gigas, Myrmecia 7  
 pyriformis, Myrmecia 15  
 pyriformis, Pheidole 77  
 pyrrhus, Polyrhachis 139  
 pythia, Aphaenogaster 55  
 pythia, Cremastogaster 62  
 pythia, Crematogaster 62  
 quadrata, Prolasius 143  
 quadratus, Prolasius 143  
 quadricaps, Rhytidoponera 45  
 quadricolor, Aphantolepis 106  
 quadricolor, Leptomyrmex varians 105  
 quadricolor, Technomyrmex 106  
 quadricuspis, Polyrhachis 139  
 quadridentatus, Odontomyrmex 85  
 quadridentatus, Pristomyrmex 85  
 quadridentatus queenslandensis, Pristomyrmex (Odontomyrmex) 85  
 quadrimaculata, Plagirolepis exigua 130  
 quadrispinosa, Epopostruma 64  
 quadrispinosa, Epopostruma quadrispinosa 64  
 quadrispinosa quadrispinosa, Epopostruma 64  
 quadrispinosa, Strumigenys (Epopostruma) 64  
 Quadristruma 85  
 Quadristruma emmae 3, 85  
 queenslandensis, Hypoponera 31  
 queenslandensis, Iridomyrmex nitidus 101  
 queenslandensis, Poner 31  
 queenslandensis, Pristomyrmex (Odontomyrmex) quadridentatus 85  
 queenslandica, Cremastogaster sordidula 62  
 queenslandica, Crematogaster 62  
 queenslandica, Crematogaster queenslandica 62  
 queenslandica froggatti, Crematogaster 62  
 queenslandica gilberti, Crematogaster 62  
 queenslandica, Myrmecia michaelsoni 12  
 queenslandica, Polyrhachis 139  
 queenslandica queenslandica, Crematogaster 62  
 queenslandica rogans, Crematogaster 63  
 queenslandica scabrula, Crematogaster 63  
 quinqueidentata, Polyrhachis (Campomyrma) hirsuta 135  
 quinqueidentata, Polyrhachis hirsuta 135  
 quinqueidentata, Strumigenys 88  
 rastellata, Formica 139  
 rastellata, Polyrhachis 139  
 rastellata yorkana, Polyrhachis 139  
 rastellata yorkana, Polyrhachis (Cyratomyrma) 139  
 rectangularis, Anochetus 21  
 rectangularis diabolus, Anochetus 21  
 rectangularis, Stigmacros 148  
 rectangularis, Stigmacros (Stigmacros) 148  
 rectidens, Hypoponera 31  
 rectidens, Myrmecia piliventris 14  
 rectidens, Poner 31  
 recurva, Pheidole concentrica 76  
 redunda, Pheidole variabilis 78  
 reflexa, Rhytidoponera 47  
 reflexus, Dolichoderus 94  
 reflexus, Dolichoderus (Hypoclinea) 94  
 regina, Myrmecia (Pristomyrmecia) 11  
 regularis, Bothroponera piliventris 22  
 regularis, Myrmecia 15  
 regularis, Pachycondyla (Bothroponera) piliventris 22  
 relict, Heteroponera 30  
 relict, Paranomopone 30  
 relucens australiae, Polyrhachis 139  
 relucens, Formica 139  
 relucens, Polyrhachis 139  
 respiciens, Formica (Myrmecopsis) 128  
 respiciens moestus, Opisthopsis 128  
 respiciens, Opisthopsis 128  
 respiciens, Opisthopsis respiciens 128  
 respiciens respiciens, Opisthopsis 128  
 reticulata, Bothroponera sublaevis 22  
 reticulata, Eubothroponera 38  
 reticulata, Poner (Bothroponera) sublaevis 22  
 reticulata, Prolasius 143  
 reticulata, Rhytidoponera 47  
 reticulata, Stigmacros 148  
 reticulatum, Ectatomma (Rhytidoponera) 47  
 reticulatus, Camponotus 118, 119  
 reticulatus mackayensis, Camponotus 118  
 reticulatus, Phyracaces 26  
 reticulatus, Prolasius 143

- Rhopalomastix 85  
 Rhopalomastix rothneyi 86  
 Rhopalothrix 86  
 Rhopalothrix orbis 86  
 Rhopalothrix procera 64  
 Rhoptromyrmex 86  
 Rhoptromyrmex melleus 86  
 Rhoptromyrmex wroughtonii 86  
 Rhytidoponera 40  
 Rhytidoponera aciculata 40  
 Rhytidoponera anceps 40  
 Rhytidoponera araneoides 40  
 Rhytidoponera araneoides arcuata 40  
 Rhytidoponera aspera 40  
 Rhytidoponera aurata 41  
 Rhytidoponera barnardi 41  
 Rhytidoponera barretti 41  
 Rhytidoponera borealis 41  
 Rhytidoponera carinata 41  
 Rhytidoponera castanea 47  
 Rhytidoponera cerastes 41  
 Rhytidoponera cerastes brevis 48  
 Rhytidoponera (Chalcopynema) arnoldi 40  
 Rhytidoponera (Chalcopynema) aspera scabrior 48  
 Rhytidoponera (Chalcopynema) caeciliae 45  
 Rhytidoponera (Chalcopynema) clarki 42  
 Rhytidoponera (Chalcopynema) dubia 43  
 Rhytidoponera (Chalcopynema) fastuosa 42  
 Rhytidoponera (Chalcopynema) lamellinodis 44  
 Rhytidoponera (Chalcopynema) metallica inornata 44  
 Rhytidoponera (Chalcopynema) metallica purpurascens 45  
 Rhytidoponera (Chalcopynema) metallica varians 45  
 Rhytidoponera (Chalcopynema) numeensis borealis 41  
 Rhytidoponera (Chalcopynema) victoriae cedarensis 49  
 Rhytidoponera (Chalcopynema) victoriae maledicta 44  
 Rhytidoponera chalybaea 41  
 Rhytidoponera chnoopyx 41  
 Rhytidoponera clarki 41  
 Rhytidoponera confusa 42  
 Rhytidoponera convexa 42  
 Rhytidoponera convexa opacior 49  
 Rhytidoponera convexa rufiventris 47  
 (Rhytidoponera) convexum gemma, Ectatomma 49  
 (Rhytidoponera) convexum nodiferum, Ectatomma 46  
 (Rhytidoponera) convexum rufescens, Ectatomma 47  
 (Rhytidoponera) convexum spatiatum, Ectatomma 45  
 (Rhytidoponera) convexum violaceum, Ectatomma 49  
 Rhytidoponera cornuta 42  
 Rhytidoponera cornuta fusciventris 48  
 (Rhytidoponera) cornutum, Ectatomma 42  
 (Rhytidoponera) cornutum taurus, Ectatomma 48  
 (Rhytidoponera) crassinode, Ectatomma 42  
 Rhytidoponera crassinodis 42  
 Rhytidoponera cristata 42  
 Rhytidoponera cristata yorkensis 49  
 (Rhytidoponera) cristatum caro, Ectatomma 40  
 (Rhytidoponera) cristatum punctiventris, Ectatomma 46  
 Rhytidoponera croesus 42  
 (Rhytidoponera) cyrus, Ectatomma 41  
 Rhytidoponera dixoni 45  
 Rhytidoponera douglasi 42, 43  
 Rhytidoponera dubia 43  
 Rhytidoponera enigmatica 43  
 Rhytidoponera eremita 43  
 Rhytidoponera ferruginea 43  
 Rhytidoponera flava 41  
 Rhytidoponera flavicornis 43  
 Rhytidoponera flavipes 43  
 Rhytidoponera flindersi 43  
 Rhytidoponera foreli 43  
 Rhytidoponera foveolata 43  
 Rhytidoponera fuliginosa 43  
 Rhytidoponera greavesi 43  
 Rhytidoponera gregoryi 44  
 Rhytidoponera haeckeli 44  
 (Rhytidoponera) haeckeli, Ectatomma 44  
 Rhytidoponera hilli 44  
 Rhytidoponera impressa 44  
 Rhytidoponera impressa chalybaea 41  
 (Rhytidoponera) impressum splendidum, Ectatomma 47  
 Rhytidoponera incisa 44  
 Rhytidoponera inornata 44  
 Rhytidoponera kurandensis 44  
 Rhytidoponera laciniosa malandensis 47  
 Rhytidoponera lamellinodis 44  
 Rhytidoponera laticeps 44  
 Rhytidoponera maledicta 44  
 Rhytidoponera maniae 45  
 (Rhytidoponera) maniae, Ectatomma 45  
 Rhytidoponera mayri 45  
 (Rhytidoponera) mayri glabrius, Ectatomma 45  
 Rhytidoponera metallica 45  
 Rhytidoponera metallica tasmaniensis 48  
 (Rhytidoponera) metallicum cristulatum, Ectatomma 48  
 (Rhytidoponera) metallicum modestum, Ectatomma 49  
 (Rhytidoponera) metallicum obscurum, Ectatomma 41  
 (Rhytidoponera) metallicum scrobiculatum, Ectatomma 49  
 Rhytidoponera micans 45  
 Rhytidoponera mirabilis 46  
 Rhytidoponera nigra 42  
 Rhytidoponera nitida 46  
 Rhytidoponera nodifera 46  
 Rhytidoponera nudata 46  
 Rhytidoponera occidentalis 45  
 Rhytidoponera peninsularis 46  
 Rhytidoponera petiolata 45  
 Rhytidoponera pilosula 46  
 Rhytidoponera pronotalis 46  
 Rhytidoponera punctata 46  
 Rhytidoponera punctata levior 42  
 Rhytidoponera punctigera 46  
 Rhytidoponera punctiventris 46  
 Rhytidoponera purpurea 46  
 Rhytidoponera quadriceps 45  
 Rhytidoponera reflexa 47  
 Rhytidoponera reticulata 47  
 (Rhytidoponera) reticulatum, Ectatomma 47  
 (Rhytidoponera) rothneyi, Ectatomma 46  
 Rhytidoponera rothneyi mediana 46  
 Rhytidoponera rufescens 47  
 Rhytidoponera rufithorax 47  
 Rhytidoponera rufiventris 47  
 Rhytidoponera rufonigra 47  
 Rhytidoponera scaberrima 47  
 (Rhytidoponera) scaberrimum, Ectatomma 47  
 Rhytidoponera scabra 48  
 Rhytidoponera scabrior 48  
 Rhytidoponera socrus 48



- (Rhytidoponera) socrus, Ectatomma 48  
 Rhytidoponera spoliata 48  
 (Rhytidoponera) spoliatum, Ectatomma 48  
 Rhytidoponera stridulator 45  
 Rhytidoponera tasmaniensis 48  
 Rhytidoponera taurus 48  
 (Rhytidoponera) tenue, Ectatomma 48  
 Rhytidoponera tenuis 48  
 Rhytidoponera trachypyx 48  
 Rhytidoponera turneri 49  
 (Rhytidoponera) turneri, Ectatomma 49  
 Rhytidoponera tyloxys 49  
 Rhytidoponera victoriae 49  
 (Rhytidoponera) victoriae, Ectatomma 49  
 Rhytidoponera violacea 49  
 Rhytidoponera viridis 49  
 Rhytidoponera yorkensis 49  
 robustus, Orectognathus 74  
 robustus, Prolasius 144  
 rodwayi, Notoncus 125  
 rogans, Cremastogaster sordidula 63  
 rogans, Crematogaster queenslandica 63  
 rogeri, Myrmecia tricolor 16  
 rosae, Paratrechina 129  
 rosae, Prenolepis 129  
 rostratus, Orectognathus 74  
 rostrinotus, Iridomyrmex 98  
 rothneyi, Ectatomma (Rhytidoponera) 46  
 rothneyi, Leptomyrmex varians 105  
 rothneyi mediana, Rhytidoponera 46  
 rothneyi, Rhopalomastix 86  
 rothsteini, Chelaner 57  
 rothsteini, Chelaner rothsteini 58  
 rothsteini doddi, Chelaner 58  
 rothsteini doddi, Monomorium (Paraholcomyrmex) 58  
 rothsteini humilior, Chelaner 58  
 rothsteini humilior, Monomorium 58  
 rothsteini leda, Chelaner 58  
 rothsteini leda, Monomorium 58  
 rothsteini, Monomorium 58  
 rothsteini rothsteini, Chelaner 58  
 rothsteini squamigena, Chelaner 58  
 rothsteini squamigena, Monomorium 58  
 rothsteini tostum, Chelaner 58  
 rothsteini tostum, Monomorium 58  
 rotnestense, Tapinoma 106  
 rotnestense, Tapinoma (Micromyrmex) 106  
 rotnesti, Camponotus (Myrmophyma) 120  
 rotula, Cerapachys (Phyracaces) singularis 28  
 rotundiceps, Cryptopone 28  
 rotundiceps, Euponera (Trachymesopsus) 28  
 rotundiceps, Notoncus 126  
 rowlandi, Myrmecia 15  
 rowlandi, Myrmecia tarsata 15  
 rowlandi, Polyrhachis 139  
 rubicunda, Bothroponera sublaevis 22  
 rubicunda, Myrmecia 15  
 rubicunda, Promyrmecia 15  
 rubiginosus, Camponotus 118  
 rubra, Monomorium rubriceps 58  
 rubra, Myrmecia forficata 10  
 rubriceps, Chelaner 58  
 rubriceps, Chelaner rubriceps 58  
 rubriceps cinctus, Monomorium 58  
 rubriceps cinctus, Chelaner 58  
 rubriceps extreminigrum, Monomorium 58  
 rubriceps extreminigrum, Chelaner 58  
 rubriceps, Iridomyrmex gracilis 99  
 rubriceps, Monomorium 58  
 rubriceps, Odontomachus ruficeps 36  
 rubriceps rubra, Monomorium 58  
 rubriceps rubriceps, Chelaner 58  
 rubriceps rubrus, Chelaner 58  
 rubripes, Myrmecia 15  
 rubrus, Chelaner rubriceps 58  
 rufa, Stigmacros 148  
 rufa, Stigmacros (Stigmacros) 148  
 rufescens, Ectatomma (Rhytidoponera) convexum 47  
 rufescens, Odontomachus ruficeps 36  
 rufescens, Rhytidoponera 47  
 ruficeps acutidens, Odontomachus 36  
 ruficeps, Leptomyrmex varians 105  
 ruficeps, Odontomachus 36  
 ruficeps rubriceps, Odontomachus 36  
 ruficeps rufescens, Odontomachus 36  
 ruficeps turneri, Odontomachus 36  
 ruficornis, Cerapachys 27  
 ruficornis, Dolichoderus (Hypoclinea) scabridus 94  
 ruficornis, Dolichoderus scabridus 94  
 ruficornis, Ectomomyrmex 30  
 ruficornis, Phyracaces 27  
 rufifemur, Polyrhachis terpsichore 141  
 rufifrons semicarinata, Colobopsis 118  
 rufinodis, Myrmecia 15  
 rufipes, Leptomyrmex varians 105  
 rufithorax, Leptomyrmex erythrocephalus 104  
 rufithorax, Myrmecorhynchus 125  
 rufithorax, Opisthopsis 128  
 rufithorax, Rhytidoponera 47  
 rufiventris, Rhytidoponera 47  
 rufiventris, Rhytidoponera convexa 47  
 rufoniger domestica, Iridomyrmex 102  
 rufoniger incerta, Iridomyrmex 102  
 rufoniger incertus, Iridomyrmex 102  
 rufoniger, Iridomyrmex 102  
 rufoniger, Iridomyrmex rufoniger 102  
 rufoniger, Opisthopsis haddoni 127  
 rufoniger pallidus, Iridomyrmex 102  
 rufoniger rufoniger, Iridomyrmex 102  
 rufoniger septentrionalis, Iridomyrmex 102  
 rufoniger suchieri, Iridomyrmex 102  
 rufoniger victorianus, Iridomyrmex 102  
 rufoniger, Euponera (Brachyponera) 52  
 rufonigra, Formica 102  
 rufonigra, Myrmecia 17  
 rufonigra, Rhytidoponera 47  
 rufonigra, Trachymesopus 52  
 rufotestacea, Cremastogaster 63  
 rufotestacea, Crematogaster 63  
 rufotestacea, Crematogaster rufotestacea 63  
 rufotestacea dentinasis, Crematogaster 63  
 rufotestacea dentinasis, Crematogaster (Orthocrema) 63  
 rufotestacea rufotestacea, Crematogaster 63  
 rufotibialis, Dolichoderus (Hypoclinea) ypsilon 95  
 rufotibialis, Dolichoderus ypsilon 95  
 rufus, Camponotus 118  
 rufus, Camponotus (Dinomyrmex) 118  
 ruginoda, Ponera 14  
 ruginodis, Promyrmecia 16  
 ruginota, Stenamma (Ischnomyrmex) longiceps 54

- rugociput, *Pheidole variabilis* 78  
 rugosa, *Lordomyrma* 84  
 rugosa, *Meranoplus hirsutus* 67  
 rugosa, *Myrmecia* 15  
 rugosa, *Myrmecia* (*Promyrmecia*) *michaelseni* 15  
 rugosa, *Myrmecina* 71  
 rugosa, *Podomyrma* 84  
 rugosula, *Pheidole variabilis* 79  
 rugulinodis, *Cerapachys* 27  
 rugulinodis, *Phyracaces* 27
- sanguinea, *Camponotus* 118  
 sanguinea, *Camponotus* (*Myrmogonia*) 118  
 sanguinea, *Iridomyrmex detectus* 102  
 sanguinea, *Iridomyrmex purpureus* 102  
 sanguinea, *Myrmecia* 15  
 sanguinea, *Notostigma* 126  
 sanguinifrons, *Camponotus* 118  
 sanguinifrons, *Camponotus* (*Colobopsis*) 118  
 sanguinolentum, *Monomorium* (*Notomyrmex*) 58  
 sanguinolentus, *Chelaner* 58  
 satan, *Orectognathus* 74  
 scaberrima, *Rhytidoponera* 47  
 scaberrimum, *Ectatomma* (*Rhytidoponera*) 47  
 scabra, *Acanthoponera* (*Anacanthoponera*) *imbellis* 30  
 scabra, *Promyrmecia* 11  
 scabra, *Rhytidoponera* 48  
 scabridus, *Dolichoderus* 94  
 scabridus, *Dolichoderus scabridus* 94  
 scabridus *ruficornis*, *Dolichoderus* 94  
 scabridus *ruficornis*, *Dolichoderus* (*Hypoclinea*) 94  
 scabridus *scabridus*, *Dolichoderus* 94  
 scabridus *ypsilon*, *Dolichoderus* 94  
 scabrior, *Rhytidoponera* 48  
 scabrior, *Rhytidoponera* (*ChalcoPONera*) *aspera* 48  
 scabrula, *Crematogaster froggatti* 63  
 scabrula, *Crematogaster queenslandica* 63  
 scabrum, *Ectatomma* 48  
 schencki, *Camponotus* 119  
 schenkii *lydiae*, *Polyrhachis* 139  
 schenkii, *Polyrhachis* 139  
 schenkii, *Polyrhachis schenkii* 139  
 schenkii *schenkii*, *Polyrhachis* 139  
*Schizopelta* 55  
*Schizopelta falcata* 56  
 schoopae, *Polyrhachis appendiculata* 131  
 schraderi, *Calyptomyrmex* 55  
 schwiedlandi, *Polyrhachis* 139  
 scipio, *Melophorus* 124  
 scissor, *Bothriomyrmex* 92  
 scita, *Crematogaster* 63  
 scita, *Crematogaster* 63  
 scita, *Crematogaster scita* 63  
 scita *mixta*, *Crematogaster* 63  
 scita *mixta*, *Crematogaster* 63  
 scita *scita*, *Crematogaster* 63  
 scitula, *Hypoponera* 32  
 scitula, *Ponera* 32  
 scratius, *Camponotus* 118  
 scratius, *Camponotus scratius* 118  
 scratius *nuntius*, *Camponotus* 118  
 scratius *scratius*, *Camponotus* 118  
 scrobiculata, *Hypoclinea* 94  
 scrobiculatum, *Ectatomma* (*Rhytidoponera*) *metallicum*
- 49  
 scrobiculatus, *Dolichoderus* 94  
 scrutator, *Phyracaces* 25  
 sculpticeps, *Crematogaster frivola* 61  
 sculpticeps, *Crematogaster frivola* 61  
 sculpturatum, *Monomorium* (*Notomyrmex*) 58  
 sculpturatus, *Chelaner* 58  
 scutellus, *Camponotus* (*Myrmosaulus*) 121  
 sedis, *Incertae* 149  
 selenophora, *Ponera* 38  
 semiaurata, *Polyrhachis* 139  
 semicarinata, *Colobopsis rufifrons* 118  
 semicarinatus, *Camponotus* 118  
 semicircularis, *Odontomachus coriarius* 36  
 semicomptus, *Codiomyrmex* 64  
 semicomptus, *Glamyromyrmex* 64  
 semipolita *hestia*, *Polyrhachis* 140  
 semipolita, *Polyrhachis* 140  
 semipolita, *Polyrhachis semipolita* 140  
 semipolita *semipolita*, *Polyrhachis* 140  
 sempronia, *Polyrhachis* 140  
 senescens, *Cerapachys* 27  
 senescens, *Phyracaces* 27  
 senilis, *Polyrhachis gab* 134  
 septentrionalis, *EubothropoNera* 38  
 septentrionalis, *Eusphinctus* (*Nothosphinctus*) 51  
 septentrionalis, *Iridomyrmex rufoniger* 102  
 septentrionalis, *Odontomachus* 36  
 septentrionalis, *Orectognathus antennatus* 72  
 septentrionalis, *Sphinctomyrmex* 51  
 sericata, *Myrmecia* (*Promyrmecia*) *aberrans* 10  
 sericeiventris, *Podomyrma micans* 80  
 sexspinosa, *Formica* 140  
 sexspinosa, *Polyrhachis* 140  
 sexspinosa, *Orectognathus* 74  
 sharpei, *Odontomachus* 36  
 shepherdii, *Promyrmecia* 17  
 sidnica *perthensis*, *Polyrhachis* 140  
 sidnica *perthensis*, *Polyrhachis* (*Campomyrma*) 140  
 sidnica, *Polyrhachis* 140  
 sidnica, *Polyrhachis sidnica* 140  
 sidnica *sidnica*, *Polyrhachis* 140  
 sidnica *tambourinensis*, *Polyrhachis* 140  
 sidnica *tambourinensis*, *Polyrhachis* (*Campomyrma*) 140  
 silaceus, *Eusphinctus* (*Nothosphinctus*) 50  
 silvestrii, *Machomyrma* 53  
 Sima *punctulata kimberleyensis* 18  
 similis, *Calomyrmex* 108  
 similis, *Camponotus* 108  
 similis, *Meranoplus* 68  
 similis, *Prolasius depressiceps* 142  
 simillima, *Myrmecia* 16  
 simillima, *Myrmica* 90  
 simillimum, *Tetramorium* 90  
 simmonsae, *Cerapachys* 28  
 simmonsae, *Phyracaces* 28  
 simulator, *Camponotus* 119  
 simulator, *Camponotus* (*Dinomyrmex*) 119  
 singularis, *Cerapachys* 28  
 singularis, *Myrmecia* 9  
 singularis *rotula*, *Cerapachys* (*Phyracaces*) 28  
 sjostedti, *Cerapachys* 28  
 sjostedti, *Cerapachys* (*Phyracaces*) 28  
 sjostedti, *Leptogenys* 34  
 sjostedti, *Tetramorium* 90

- sjostedti, Tetramorium (Xiphomyrmex) 90  
 smaragdina, Calomyrmex purpureus 108  
 smaragdina, Formica 127  
 smaragdina, Oecophylla 127  
 smithi, Amblyopone 20  
 smithii, Formica 101  
 socialis, Ectatomma 23  
 socrus, Ectatomma (Rhytidoponera) 48  
 socrus, Rhytidoponera 48  
 sokolova degener, Polyrhachis 140  
 sokolova, Polyrhachis 140  
 sokolova, Polyrhachis sokolova 140  
 sokolova sokolova, Polyrhachis 140  
 Solenopsis 86  
 Solenopsis belisaria 86  
 Solenopsis belisarius 86  
 Solenopsis clarki 87  
 Solenopsis froggatti 87  
 Solenopsis fusciventris 87  
 Solenopsis insculpta 87  
 Solenopsis insculptus 87  
 sophiae, Polyrhachis heinlethii 135  
 sophiae, Technomyrmex 107  
 sordida, Stigmacros 148  
 sordida, Stigmacros (Cyrtostigmacros) 148  
 sordidula dispar, Cremastogaster 61  
 sordidula froggatti, Cremastogaster 62  
 sordidula gilberti, Cremastogaster 62  
 sordidula queenslandica, Cremastogaster 62  
 sordidula rogans, Cremastogaster 63  
 sordidum, Monomorium 59  
 sordidum nigriventris, Monomorium 59  
 sordidus, Chelaner 59  
 sordidus, Chelaner sordidus 59  
 sordidus nigriventris, Chelaner 59  
 sordidus sordidus, Chelaner 59  
 spadicea, Myrmecia 16  
 spatiatum, Ectatomma (Rhytidoponera) convexum 45  
 spenceri, Camponotus 119  
 spenceri, Camponotus (Tanaemyrmex) 119  
 Sphinctomyrmex 49  
 Sphinctomyrmex asper 50  
 Sphinctomyrmex cedaris 50  
 Sphinctomyrmex clarus 50  
 Sphinctomyrmex clarus mjobergi 51  
 Sphinctomyrmex ducharsoyi 50  
 Sphinctomyrmex emeryi myops 51  
 Sphinctomyrmex (Eusphinctus) fallax 51  
 Sphinctomyrmex (Eusphinctus) fallax cedaris 50  
 Sphinctomyrmex (Eusphinctus) fallax hedwigae 51  
 Sphinctomyrmex (Eusphinctus) steinheili 51  
 Sphinctomyrmex froggatti 50  
 Sphinctomyrmex froggatti imbecilis 50  
 Sphinctomyrmex imbecilis 50  
 Sphinctomyrmex mjobergi 51  
 Sphinctomyrmex myops 51  
 Sphinctomyrmex nigricans 51  
 Sphinctomyrmex occidentalis 51  
 Sphinctomyrmex perstictus 51  
 Sphinctomyrmex septentrionalis 51  
 Sphinctomyrmex steinheili 51  
 Sphinctomyrmex trux 52  
 Sphinctomyrmex turneri 52  
 spininode, Tetramorium 90  
 spinisquamis, Melophorus 126  
 spinisquamis, Notoncus 126  
 spinitarsus, Camponotus 119  
 spinitarsus, Camponotus (Dinomyrmex) 119  
 spinoda, Atta 77  
 spinoda, Pheidole 77  
 spinosa, Stigmacros 148  
 spinosa, Stigmacros (Hagiostigmacros) 148  
 spinosior, Mayriella 66  
 splendens, Iridomyrmex mattirolai 100  
 splendior, Tetramorium 90  
 splendior, Xiphomyrmex striolatus 90  
 splendidum, Ectatomma (Rhytidoponera) impressum 47  
 splendidus, Calomyrmex 108  
 splendidus, Calomyrmex splendidus 108  
 splendidus, Camponotus 108  
 splendidus, Iridomyrmex bicknelli 96  
 splendidus mutans, Calomyrmex 108  
 splendidus mutans, Camponotus (Calomyrmex) 108  
 splendidus splendidus, Calomyrmex 108  
 splendidus viridiventris, Calomyrmex 109  
 spoliata, Rhytidoponera 48  
 spoliatum, Ectatomma (Rhytidoponera) 48  
 sponsozum, Camponotus 119  
 spurcus, Iridomyrmex gracilis 99  
 squamigena, Chelaner rothsteini 58  
 squamigena, Monomorium rothsteini 58  
 squamulosa, Plagiolepis 130  
 stanleyi, Stigmacros 148  
 stanleyi, Stigmacros (Campostigmacros) 148  
 steinheili, Sphinctomyrmex 51  
 steinheili, Sphinctomyrmex (Eusphinctus) 51  
 Stenamma (Ischnomyrmex) longiceps ruginota 54  
 Stenothorax 53  
 Stenothorax katerinae 53  
 stewartii, Iridomyrmex cordatus 97  
 Stictoponera biroii 30  
 stictum, Proceratium 40  
 Stigmacros 144  
 Stigmacros aciculata 145  
 Stigmacros acuta 145  
 (Stigmacros) acuta, Stigmacros 145  
 Stigmacros aemula 145  
 (Stigmacros) aemula, Acantholepis 145  
 (Stigmacros) aemula intacta, Acantholepis 147  
 Stigmacros anthracina 145  
 Stigmacros armstrongi 145  
 Stigmacros australis 145  
 Stigmacros barretti 145  
 Stigmacros bosii 145  
 Stigmacros brachytera 145  
 Stigmacros brevispina 145  
 (Stigmacros) brevispina, Stigmacros 145  
 Stigmacros brooksi 145  
 Stigmacros (Campostigmacros) anthracina 145  
 Stigmacros (Campostigmacros) brachytera 145  
 Stigmacros (Campostigmacros) epinotalis 146  
 Stigmacros (Campostigmacros) marginata 147  
 Stigmacros (Campostigmacros) nitida 147  
 Stigmacros (Campostigmacros) stanleyi 148  
 Stigmacros castanea 146  
 Stigmacros (Chariostigmacros) hirsuta 147  
 Stigmacros clarki 146  
 Stigmacros clivispina 146  
 Stigmacros (Cyrtostigmacros) aciculata 145  
 Stigmacros (Cyrtostigmacros) armstrongi 145



- Stigmatos* (*Cyrtostigmatos*) *brooksi* 145  
*Stigmatos* (*Cyrtostigmatos*) *castanea* 146  
*Stigmatos* (*Cyrtostigmatos*) *clarki* 146  
*Stigmatos* (*Cyrtostigmatos*) *extreminigra* 146  
*Stigmatos* (*Cyrtostigmatos*) *ferruginea* 146  
*Stigmatos* (*Cyrtostigmatos*) *flava* 146  
*Stigmatos* (*Cyrtostigmatos*) *glauerti* 146  
*Stigmatos* (*Cyrtostigmatos*) *lanaris* 147  
*Stigmatos* (*Cyrtostigmatos*) *major* 147  
*Stigmatos* (*Cyrtostigmatos*) *proxima* 148  
*Stigmatos* (*Cyrtostigmatos*) *sordida* 148  
*Stigmatos* (*Cyrtostigmatos*) *striata* 148  
*Stigmatos elegans* 146  
*Stigmatos epinotalis* 146  
*Stigmatos extreminigra* 146  
*Stigmatos ferruginea* 146  
*Stigmatos flava* 146  
*Stigmatos flavinodis* 146  
*(Stigmatos) foreli*, *Acantholepis* 146  
*(Stigmatos) fossulata*, *Acantholepis* 146  
*Stigmatos froggatti* 146  
*Stigmatos glauerti* 146  
*Stigmatos (Hagiostigmatos) punctatissima* 148  
*Stigmatos (Hagiostigmatos) spinosa* 148  
*Stigmatos hirsuta* 147  
*Stigmatos impressa* 147  
*(Stigmatos) impressa*, *Stigmatos* 147  
*Stigmatos inermis* 147  
*Stigmatos intacta* 147  
*Stigmatos lanaris* 147  
*Stigmatos major* 147  
*Stigmatos marginata* 147  
*Stigmatos medioreticulata* 147  
*(Stigmatos) medioreticulata*, *Acantholepis* 147  
*Stigmatos minor* 147  
*(Stigmatos) minor*, *Stigmatos* 147  
*Stigmatos nitida* 147  
*Stigmatos occidentalis* 147  
*(Stigmatos) occidentalis*, *Acantholepis* 147  
*Stigmatos pilosella* 147  
*(Stigmatos) pilosella*, *Acantholepis* 147  
*Stigmatos proxima* 148  
*Stigmatos (Pseudostigmatos) inermis* 147  
*Stigmatos punctatissima* 148  
*Stigmatos pusilla* 148  
*(Stigmatos) pusilla*, *Stigmatos* 148  
*Stigmatos rectangularis* 148  
*(Stigmatos) rectangularis*, *Stigmatos* 148  
*Stigmatos reticulata* 148  
*Stigmatos rufa* 148  
*(Stigmatos) rufa*, *Stigmatos* 148  
*Stigmatos sordida* 148  
*Stigmatos spinosa* 148  
*Stigmatos stanleyi* 148  
*Stigmatos (Stigmatos) acuta* 145  
*Stigmatos (Stigmatos) brevispina* 145  
*Stigmatos (Stigmatos) impressa* 147  
*Stigmatos (Stigmatos) minor* 147  
*Stigmatos (Stigmatos) pusilla* 148  
*Stigmatos (Stigmatos) rectangularis* 148  
*Stigmatos (Stigmatos) rufa* 148  
*Stigmatos (Stigmatos) wilsoni* 148  
*Stigmatos striata* 148  
*Stigmatos termitoxenus* 148  
*Stigmatos wilsoni* 148  
*(Stigmatos) wilsoni*, *Stigmatos* 148  
*striata*, *Podomyrma* 84  
*striata*, *Stigmatos* 148  
*striata*, *Stigmatos (Cyrtostigmatos)* 148  
*striatidens australis*, *Triglyphothrix (Xiphomyrmex)* 91  
*strictum*, *Tetramorium* 90  
*stridulator*, *Rhytidoponera* 45  
*striolatum*, *Tetramorium* 90  
*striolatus splendidior*, *Xiphomyrmex* 90  
*striolatus*, *Tetramorium (Xiphomyrmex) viehmeiyeri* 90  
*Strumigenys* 87  
*Strumigenys emdeni* 87  
*Strumigenys (Epopostruma) quadrispinosa* 64  
*Strumigenys (Epopostruma) turneri* 69  
*Strumigenys ferocior* 87  
*Strumigenys friedae* 87  
*Strumigenys godeffroyi* 87  
*Strumigenys guttulata* 87  
*Strumigenys leae* 88  
*Strumigenys mayri* 87  
*Strumigenys opaca* 88  
*Strumigenys perplexa* 88  
*Strumigenys quinquentata* 88  
*Strumigenys szalai* 88  
*Strumigenys szalai australis* 88  
*Strumigenys xenos* 88  
*subapterum bogischi*, *Monomorium* 59  
*subapterum*, *Monomorium* 59  
*subapterus bogischi*, *Chelaner* 59  
*subapterus*, *Chelaner* 59  
*subapterus*, *Chelaner subapterus* 59  
*subapterus subapterus*, *Chelaner* 59  
*subcoecum australicum*, *Monomorium* 70  
*subdentata*, *Notoncus foreli* 125  
*subfasciata*, *Myrmecia* 16  
*sublaevis*, *Bothroponera* 22  
*sublaevis*, *Bothroponera sublaevis* 22  
*sublaevis kurandensis*, *Bothroponera* 22  
*sublaevis kurandensis*, *Pachycondyla (Bothroponera)* 22  
*sublaevis murina*, *Bothroponera* 22  
*sublaevis murina*, *Pachycondyla (Bothroponera)* 22  
*sublaevis reticulata*, *Bothroponera* 22  
*sublaevis reticulata*, *Ponera (Bothroponera)* 22  
*sublaevis rubicunda*, *Bothroponera* 22  
*sublaevis sublaevis*, *Bothroponera* 22  
*subnitens*, *Polyrhachis inconspicua* 136  
*subnitidus*, *Camponotus* 119  
*subnitidus*, *Camponotus subnitidus* 119  
*subnitidus famelicus*, *Camponotus* 119  
*subnitidus longinodis*, *Camponotus* 119  
*subnitidus longinodis*, *Camponotus (Dinomyrmex)* 119  
*subnitidus subnitidus*, *Camponotus* 119  
*suchieri*, *Iridomyrmex rufoniger* 102  
*suffusa*, *Formica* 119  
*suffusus bendigensis*, *Camponotus* 120  
*suffusus*, *Camponotus* 119  
*suffusus*, *Camponotus suffusus* 119  
*suffusus suffusus*, *Camponotus* 119  
*sulciceps*, *Hypoconer* 32  
*sulciceps*, *Ponera* 32  
*sulla*, *Melophorus ludius* 123  
*suttoni*, *Myrmecia* 16  
*swalei*, *Myrmecia* 16  
*swalei*, *Myrmecia harderi* 16  
*swani*, *Leptanilla* 53

- sycites, *Cremastogaster australis* 60  
 sycites, *Crematogaster australis* 60  
 sydneyense, *Monomorium* 71  
 sydneyense, *Monomorium sydneyense* 71  
 sydneyense nigella, *Monomorium* (Mitara) 71  
 sydneyense nigellum, *Monomorium* 71  
 sydneyense sydneyense, *Monomorium* 71  
 Syscia australis 24  
 Syscia australis edentata 24  
 szalayi australis, *Strumigenys* 88  
 szalayi, *Strumigenys* 88
- tambourinensis, *Chelaner kiliani* 57  
 tambourinensis, *Monomorium kiliani* 57  
 tambourinensis, *Pheidole athertonensis* 75  
 tambourinensis, *Polyrhachis* (*Campomyrma*) *sidnica* 140  
 tambourinensis, *Polyrhachis sidnica* 140  
 (Tanaemyrmex) *myoporus*, *Camponotus* 116  
 (Tanaemyrmex) *postcornutus*, *Camponotus* 118  
 (Tanaemyrmex) *spenceri*, *Camponotus* 119  
 (Tanaemyrmex) *tricoloratus*, *Camponotus* 120  
 Tapinoma 105  
 (Tapinoma) *albipes*, *Formica* 106  
 Tapinoma (*Doleromyrma*) *darwinianum* 97  
 Tapinoma (*Doleromyrma*) *darwinianum fida* 97  
 Tapinoma (*Micromyrma*) *minutum cephalicum* 106  
 Tapinoma (*Micromyrma*) *rotnnestense* 106  
 Tapinoma *minutum* 105  
 Tapinoma *minutum broomense* 106  
 Tapinoma *minutum broomensis* 106  
 Tapinoma *minutum cephalicum* 106  
 Tapinoma *minutum integrum* 106  
 Tapinoma *minutum minutum* 105  
 Tapinoma *pusillum* 92  
 Tapinoma *rotnnestense* 106  
 tarsata malandensis, *Myrmecia* 15  
 tarsata, *Myrmecia* 16  
 tarsata rowlandi, *Myrmecia* 15  
 tasmani, *Camponotus* 120  
 tasmaniensis continentis, *Pheidole* 78  
 tasmaniensis, *Myopias* 35  
 tasmaniensis, *Myrmecia* 8  
 tasmaniensis, *Pachycondyla* (*Bothroponera*) 38  
 tasmaniensis, *Paratrechina* 129  
 tasmaniensis, *Pheidole* 77  
 tasmaniensis, *Pheidole tasmaniensis* 77  
 tasmaniensis, *Prenolepis* (*Nylanderia*) 129  
 tasmaniensis, *Rhytidoponera* 48  
 tasmaniensis, *Rhytidoponera metallica* 48  
 tasmaniensis tasmaniensis, *Pheidole* 77  
 taurus, *Ectatomma* (*Rhytidoponera*) *cornutum* 48  
 taurus, *Rhytidoponera* 48  
 taylori, *Myrmecia* (*Promyrmecia*) *aberrans* 10  
 Technomyrmex 106  
 Technomyrmex *albipes* 3, 106  
 Technomyrmex *albipes cedarensis* 106  
 Technomyrmex *bicolor* 106  
 Technomyrmex *bicolor antonii* 106  
 Technomyrmex *jocosus* 106  
 Technomyrmex *quadricolor* 106  
 Technomyrmex *sophiae* 107  
 templi, *Polyrhachis* 140  
 tenue, *Ectatomma* (*Rhytidoponera*) 48  
 tenuis, *Rhytidoponera* 48
- tepperi, *Myrmecia* 17  
 Teratomyrmex 149  
 Teratomyrmex *greavesi* 149  
 terebrans, *Formica* 120  
 teres, *Podomyrma densestrigosa* 81  
 termitoxenus, *Stigmacros* 148  
 terpsichore elegans, *Polyrhachis* 141  
 terpsichore elegans, *Polyrhachis* 141  
 terpsichore, *Polyrhachis* 140  
 terpsichore, *Polyrhachis terpsichore* 140  
 terpsichore rufifemur, *Polyrhachis* 141  
 terpsichore terpsichore, *Polyrhachis* 140  
 testaceipes, *Camponotus* 120  
 testaceipes, *Formica* 120  
 testaceipes, *Myrmecia* 17  
 testaceipes, *Promyrmecia* 17  
 testudineus, *Meranoplus* 68  
 Tetramorium 3, 88  
 Tetramorium *andrynicum* 89  
 Tetramorium *antipodum* 90  
 Tetramorium *australe* 89  
 Tetramorium *bicarinarum* 89  
 Tetramorium *capitale* 89  
 Tetramorium *confusum* 89  
 Tetramorium *deceptum* 89  
 Tetramorium *fuscipes* 89  
 Tetramorium *impressum* 89  
 Tetramorium *lanuginosum* 91  
 Tetramorium *laticepalum* 89  
 Tetramorium *megalops* 89  
 Tetramorium *melleum* 86  
 Tetramorium *ornatum* 90  
 Tetramorium *pacificum* 90  
 Tetramorium *pacificum validiusculum* 91  
 Tetramorium *simillimum* 90  
 Tetramorium *sjostedti* 90  
 Tetramorium *spininode* 90  
 Tetramorium *splendidior* 90  
 Tetramorium *strictum* 90  
 Tetramorium *striolatum* 90  
 Tetramorium *thalidum* 91  
 Tetramorium *turneri* 91  
 Tetramorium *validiusculum* 91  
 Tetramorium *viehmeyeri* 91  
 Tetramorium (*Xiphomyrmex*) *sjostedti* 90  
 Tetramorium (*Xiphomyrmex*) *turneri* 91  
 Tetramorium (*Xiphomyrmex*) *viehmeyeri* 91  
 Tetramorium (*Xiphomyrmex*) *viehmeyeri striolatus* 90  
 Tetraponera 2, 17  
 Tetraponera *laeviceps* 18  
 Tetraponera *punctulata* 18  
 Tetraponera *punctulata kimberleyensis* 18  
 Tetraponera *punctulata punctulata* 18  
 thais, *Polyrhachis* 141  
 thalia io, *Polyrhachis* 141  
 thalia io, *Polyrhachis* (*Campomyrma*) 141  
 thalia, *Polyrhachis* 141  
 thalia, *Polyrhachis thalia* 141  
 thalia thalia, *Polyrhachis* 141  
 thalidum, *Tetramorium* 91  
 Thlipsepinotus 109  
 thoracicus, *Pristomyrmex* 85  
 thusnelda, *Polyrhachis* 141  
 tibialis, *Leptomyrmex nigriventris* 104  
 tillyardi, *Metapone* 69

- tostum, *Chelaner rothsteini* 58  
 tostum, *Monomorium rothsteini* 58  
 townsvillei, *Polyrhachis* 141  
 townsvillei, *Polyrhachis* (*Cyrtomyrma*) 141  
 (*Trachymesopus*) *rotundiceps*, *Euponera* 28  
*Trachymesopus* 52  
*Trachymesopus clarki* 52  
 (*Trachymesopus*) *clarki*, *Euponera* 52  
*Trachymesopus darwinii* 52  
*Trachymesopus pachynoda* 52  
 (*Trachymesopus*) *pachynoda*, *Euponera* 52  
*Trachymesopus rufonigra* 52  
*trachypyx*, *Rhytidoponera* 48  
*transversa*, *Pheidole proxima* 77  
*Trapeziopelta diadela* 35  
*trapezoidea*, *Pheidole* 78  
*trapezoidea*, *Polyrhachis* 141  
*Trichomelophorus* 122  
*tricolor*, *Metapone* 69  
*tricolor*, *Myrmecia* 16  
*tricolor*, *Podomyrma* 84  
*tricolor rogeri*, *Myrmecia* 16  
*tricoloratus*, *Camponotus* 120  
*tricoloratus*, *Camponotus* (*Tanaemyrmex*) 120  
*tricosa*, *Leptogenys* 34  
*Triglyphothrix* 91  
*Triglyphothrix lanuginosa* 91  
*Triglyphothrix* (*Xiphomyrmex*) *striatidens australis* 91  
*trigona convexiuscula*, *Ponera* 31  
*tripellis*, *Polyrhachis* (*Chariomyrma*) *gab* 134  
*tristis*, *Camponotus* 120  
*tristis*, *Camponotus* (*Myrmophyma*) 120  
*tristis*, *Dolichoderus* (*Hypoclinea*) 93  
*truncata elliptica*, *Ponera* 31  
*trux*, *Sphinctomyrmex* 52  
*tuberculatus*, *Acantholepis* 101  
*tubifera*, *Polyrhachis* 141  
*tumidus*, *Camponotus* 120  
*tumidus*, *Camponotus* (*Myrmogonia*) 120  
*turneri*, *Aenictus* 52  
*turneri aescopus*, *Melophorus* 124  
*turneri*, *Anochetus* 21  
*turneri candida*, *Melophorus* 124  
*turneri candidus*, *Melophorus* 124  
*turneri*, *Cerapachys* 28  
*turneri*, *Cerapachys* (*Phyracaces*) 28  
*turneri*, *Chelaner* 59  
*turneri*, *Dacryon* 84  
*turneri*, *Dolichoderus* 94  
*turneri*, *Echinopla* 121  
*turneri*, *Echinopla turneri* 121  
*turneri*, *Ectatomma* (*Rhytidoponera*) 49  
*turneri fuscipes*, *Xiphomyrmex* 89  
*turneri latunei*, *Anochetus* 21  
*turneri*, *Leptogenys* 34  
*turneri*, *Leptogenys turneri* 34  
*turneri longensis*, *Leptogenys* 34  
*turneri longensis*, *Leptogenys* (*Odontopelta*) 34  
*turneri*, *Melophorus* 124  
*turneri*, *Melophorus turneri* 124  
*turneri*, *Mesostruma* 69  
*turneri*, *Odontomachus* 36  
*turneri*, *Odontomachus ruficeps* 36  
*turneri perthensis*, *Melophorus* 124  
*turneri*, *Pheidole* 78  
*turneri pictipes*, *Echinopla* 122  
*turneri*, *Platythyrea* 38  
*turneri*, *Podomyrma* 84  
*turneri*, *Polyrhachis* 141  
*turneri*, *Pseudonotoncus* 144  
*turneri*, *Rhytidoponera* 49  
*turneri*, *Sphinctomyrmex* 52  
*turneri*, *Strumigenys* (*Epopostruma*) 69  
*turneri*, *Tetramorium* 91  
*turneri*, *Tetramorium* (*Xiphomyrmex*) 91  
*turneri turneri*, *Echinopla* 121  
*turneri turneri*, *Leptogenys* 34  
*turneri turneri*, *Melophorus* 124  
*turneri*, *Vollenhovia* 59  
*Turneria* 107  
*Turneria bidentata* 107  
*Turneria frenchi* 107  
*Turnesia bidentata* 107  
*turtoni*, *Discothyrea* 29  
*tyloxys*, *Rhytidoponera* 49  
*Typhlatta ceylonica* 52  
*unctus*, *Leptomyrmex erythrocephalus* 104  
*unicolor*, *Leptomyrmex* 105  
*unicolor*, *Meranoplus diversus* 67  
*unicolor*, *Orectognathus mjobergi* 73  
*urania*, *Polyrhachis* 141  
*urens*, *Myrmecia* 17  
*vaga*, *Paratrechina* 129  
*vaga*, *Prenolepis obscura* 129  
*validiusculum*, *Tetramorium* 91  
*validiusculum*, *Tetramorium pacificum* 91  
*variabilis ampla*, *Pheidole* 74  
*variabilis latigena*, *Pheidole* 78  
*variabilis mediofusca*, *Pheidole* 78  
*variabilis ocior*, *Pheidole* 78  
*variabilis ocyma*, *Pheidole* 78  
*variabilis parvispina*, *Pheidole* 78  
*variabilis*, *Pheidole* 78  
*variabilis*, *Pheidole variabilis* 78  
*variabilis praedo*, *Pheidole* 78  
*variabilis redunca*, *Pheidole* 78  
*variabilis rugociput*, *Pheidole* 78  
*variabilis rugosula*, *Pheidole* 79  
*variabilis variabilis*, *Pheidole* 78  
*varians angusticeps*, *Leptomyrmex* 105  
*varians*, *Cerapachys* 28  
*varians*, *Leptomyrmex* 105  
*varians*, *Leptomyrmex varians* 105  
*varians*, *Myrmecia* 17  
*varians*, *Phyracaces* 28  
*varians quadricolor*, *Leptomyrmex* 105  
*varians*, *Rhytidoponera* (*Chalcoponera*) *metallica* 45  
*varians rothneyi*, *Leptomyrmex* 105  
*varians ruficeps*, *Leptomyrmex* 105  
*varians rufipes*, *Leptomyrmex* 105  
*varians varians*, *Leptomyrmex* 105  
*varicolor*, *Podomyrma overbecki* 84  
*velutina*, *Discothyrea* 29  
*velutina*, *Prodiscothyrea* 29  
*venustula*, *Mayriella abstinens* 66  
*venustus*, *Leptomyrmex erythrocephalus* 104



- venustus, *Xiphomyrmex viehmeyeri* 91  
 vermiculosa, *Polyrhachis guerini* 134  
 versicolor, *Camponotus* 120  
 versicolor, *Camponotus (Myrmosaulus)* 120  
 versicolor, *Orectognathus* 74  
 vicina, *Iridomyrmex* 103  
 victoriae andrei, *Chalcoconera* 42  
 victoriae cedarensis, *Rhytidoponera (Chalcoconera)* 49  
 victoriae, *Ectatomma (Rhytidoponera)* 49  
 victoriae maledicta, *Rhytidoponera (Chalcoconera)* 44  
 victoriae, *Rhytidoponera* 49  
 victorianus, *Iridomyrmex rufoniger* 102  
 victoriensis, *Camponotus latrunculus* 115  
 victoriensis, *Camponotus (Myrmoturba) latrunculus* 115  
 viehmeyeri striolatus, *Tetramorium (Xiphomyrmex)* 90  
 viehmeyeri, *Tetramorium* 91  
 viehmeyeri, *Tetramorium (Xiphomyrmex)* 91  
 viehmeyeri venustus, *Xiphomyrmex* 91  
 vigilans, *Atta* 79  
 vigilans, *Pheidole* 79  
 villosa, *Camponotus (Myrmoturba)* 120  
 villosus, *Camponotus* 120  
 vindex basirufa, *Myrmecia* 17  
 vindex desertorum, *Myrmecia* 8  
 vindex, *Myrmecia* 17  
 vindex, *Myrmecia vindex* 17  
 vindex vindex, *Myrmecia* 17  
 violacea, *Rhytidoponera* 49  
 violaceum, *Ectatomma (Rhytidoponera) convexum* 49  
 virescens, *Formica* 127  
 viridiaeneus, *Iridomyrmex detectus* 102  
 viridiaeneus, *Iridomyrmex purpureus* 102  
 viridigaster, *Iridomyrmex* 103  
 viridis, *Chalcoconera* 49  
 viridis, *Formica* 127  
 viridis, *Rhytidoponera* 49  
 viridiventris, *Calomyrmex splendidus* 109  
 vitrea, *Formica* 120  
 vitreus, *Camponotus* 120  
 Vollenhovia 91  
 Vollenhovia oblonga 92  
 Vollenhovia turneri 59  
 voltae, *Camponotus (Myrmogonia) oetkeri* 117  
 voltae, *Camponotus oetkeri* 117
- walkeri bardus, *Camponotus* 121  
 walkeri, *Camponotus* 121  
 walkeri, *Camponotus walkeri* 121  
 walkeri, *Myrmecia* 9  
 walkeri walkeri, *Camponotus* 121  
 wheeleri, *Melophorus* 124  
 wheeleri, *Pristomyrmex* 85  
 wheeleri, *Prolasius* 144  
 whitei, *Camponotus* 121  
 whitei, *Camponotus (Myrmosphincta)* 121  
 whitei, *Chelaner* 59  
 whitei, *Crematogaster* 63  
 whitei, *Monomorium (Holcomyrmex)* 59  
 wiburdi, *Leptomyrmex* 105  
 wiburdi, *Leptomyrmex wiburdi* 105  
 wiburdi pictus, *Leptomyrmex* 105  
 wiburdi wiburdi, *Leptomyrmex* 105
- wiederkehri, *Camponotus* 121  
 wiederkehri, *Camponotus wiederkehri* 121  
 wiederkehri lucidior, *Camponotus* 121  
 wiederkehri wiederkehri, *Camponotus* 121  
 wienandsi, *Calomyrmex albopilosus* 108  
 wienandsi, *Camponotus (Calomyrmex) albopilosus* 108  
 wiesei, *Pheidole* 79  
 wilsoni, *Amblyopone* 20  
 wilsoni, *Bothriomyrmex* 92  
 wilsoni, *Pristomyrmex* 85  
 wilsoni, *Prolasius hemiflavus* 143  
 wilsoni, *Promyrmecia* 17  
 wilsoni, *Stigmatoceros* 148  
 wilsoni, *Stigmatoceros (Stigmatoceros)* 148  
 wroughtonii, *Rhoptromyrmex* 86
- xenos, *Strumigenys* 88  
 xerophila, *Crematogaster* 63  
 xerophila, *Crematogaster xerophila* 63  
 xerophila exigua, *Crematogaster* 63  
 xerophila xerophila, *Crematogaster* 63  
 Xiphomyrmex capitalis 89  
 Xiphomyrmex flavigaster 56  
 Xiphomyrmex impressus 89  
 (Xiphomyrmex) sjostedti, *Tetramorium* 90  
 (Xiphomyrmex) striatidens australis, *Triglyphothrix* 91  
 Xiphomyrmex striolatus splendidior 90  
 Xiphomyrmex turneri fuscipes 89  
 (Xiphomyrmex) turneri, *Tetramorium* 91  
 (Xiphomyrmex) viehmeyeri striolatus, *Tetramorium* 90  
 (Xiphomyrmex) viehmeyeri, *Tetramorium* 91  
 Xiphomyrmex viehmeyeri venustus 91
- yalgooensis, *Iridomyrmex chasei* 97  
 yarrabahensis, *Camponotus discors* 112  
 yarrabahensis, *Camponotus (Myrmoturba) maculatus* 112  
 yarrabahensis, *Polyrhachis lombokensis* 137  
 yarrabahensis, *Polyrhachis (Myrmatopa) lombokensis* 137  
 yarrabahna, *Leptogenys diminuta* 33  
 yarrabahna, *Leptogenys (Lobopelta) diminuta* 33  
 yarrensensis, *Pheidole ampla* 79  
 yorkana, *Polyrhachis (Cyrtomyrma) rastellata* 139  
 yorkana, *Polyrhachis rastellata* 139  
 yorkensis, *Rhytidoponera* 49  
 yorkensis, *Rhytidoponera cristata* 49  
 ypsilon, *Dolichoderus* 94  
 ypsilon, *Dolichoderus scabridus* 94  
 ypsilon, *Dolichoderus ypsilon* 94  
 ypsilon nigra, *Dolichoderus* 95  
 ypsilon nigra, *Dolichoderus (Hypoclinea)* 95  
 ypsilon rufotibialis, *Dolichoderus* 95  
 ypsilon rufotibialis, *Dolichoderus (Hypoclinea)* 95  
 ypsilon ypsilon, *Dolichoderus* 94
- Zasphinctus 49  
 zeuxis, *Camponotus evae* 113  
 zeuxis, *Camponotus (Myrmogonia) evae* 113  
 zimmerae, *Polyrhachis* 141  
 zimmerae, *Polyrhachis (Campomyrma)* 141

# TAXONOMIC INDEX

## SPHECOIDEA AND VESPOIDEA

- abbreviata*, Liris (*Leptolarra*) 234  
*abbreviata*, *Notogonia* 234  
*abdit*, *Isodontia* 226  
*abdit* *nugenti*, *Isodontia* 226  
*abditus* *nugenti*, *Sphex* (*Isodontia*) 226  
*aberrans*, *Pison* (*Parapison*) 257  
*aberrans*, *Pison* (*Pison*) 257  
*Abispa* 160  
(*Abispa*), *Abispa* 160  
*Abispa* (*Abispa*) 160  
*Abispa* (*Abispa*) *australiana* 161  
*Abispa* (*Abispa*) *ephippium* 161  
*Abispa* (*Abispa*) *laticincta* 161  
*Abispa* (*Abispa*) *splendida* 161  
*Abispa* (*Abispa*) *splendida australis* 161  
*Abispa* (*Abispa*) *splendida splendida* 161  
(*Abispa*) *australiana*, *Abispa* 161  
(*Abispa*) *australiana*, *Vespa* 161  
*Abispa australis* 161  
(*Abispa*) *ephippium*, *Abispa* 161  
(*Abispa*) *laticincta*, *Abispa* 161  
*Abispa meadowaldoensis* 161  
*Abispa paragioides* 199  
(*Abispa*) *splendida*, *Abispa* 161  
(*Abispa*) *splendida australis*, *Abispa* 161  
(*Abispa*) *splendida splendida*, *Abispa* 161  
*abispoides*, *Rhynchium* 175  
*abnormis*, *Alastor* 182  
*abnormis*, *Larissus* 255  
*abnormis*, *Paralastor* 182  
*abnormis*, *Sericophorus* 255  
*aborigenus*, *Tachysphex* 238  
*Acanthostethus* 218, 277  
*Acanthostethus basalis* 278  
*Acanthostethus brisbanensis* 277  
(*Acanthostethus*) *brisbanensis*, *Nysson* 277  
*Acanthostethus confertus* 277  
(*Acanthostethus*) *confertus*, *Nysson* 277  
*Acanthostethus gilberti* 277  
(*Acanthostethus*) *gilberti*, *Nysson* 277  
*Acanthostethus hentyi* 277  
*Acanthostethus minimus* 277  
(*Acanthostethus*) *minimus*, *Nysson* 277  
*Acanthostethus moerens* 277  
(*Acanthostethus*) *moerens*, *Nysson* 277  
*Acanthostethus mysticus* 278  
*Acanthostethus nudiventris* 278  
(*Acanthostethus*) *nudiventris*, *Nysson* 278  
*Acanthostethus oblitteratus* 278  
(*Acanthostethus*) *oblitteratus*, *Nysson* 278  
*Acanthostethus portlandensis* 278  
*Acanthostethus punctatissimus* 278  
(*Acanthostethus*) *punctatissimus*, *Nysson* 278  
*Acanthostethus saussurei* 278  
*Acanthostethus spiniger* 278  
(*Acanthostethus*) *spiniger*, *Nysson* 278  
*Acanthostethus tasmanicus* 278  
(*Acanthostethus*) *tasmanicus*, *Nysson* 278  
*Acanthostethus triangularis* 279  
(*Acanthostethus*) *triangularis*, *Nysson* 279  
*Acarodynerus* 162  
*Acarodynerus acarophilus* 162  
*Acarodynerus clypeatus* 162  
*Acarodynerus denticulatus* 162  
*Acarodynerus dietrichianus* 162  
*Acarodynerus dietrichianus dietrichianus* 162  
*Acarodynerus dietrichianus rufocaudatus* 162  
*Acarodynerus drewsenianus* 162  
*Acarodynerus exarmatus* 163  
*Acarodynerus legatus* 163  
*Acarodynerus lunaris* 163  
*Acarodynerus paleovariatus* 163  
*Acarodynerus posttegulatus* 163  
*Acarodynerus propodalaris* 163  
*Acarodynerus quadrangulum* 163  
*Acarodynerus queenslandicus* 163  
*Acarodynerus spargovillensis* 164  
*Acarodynerus spectrum* 164  
*Acarodynerus triangulum* 164  
*acarophilus*, *Acarodynerus* 162  
*Acarozumia* 164  
*Acarozumia amaliae* 164  
*acuticollis*, *Sphodrotes* 254  
*adae*, *Cerceris* 296  
*adelaidae*, *Tachysphex* 240  
*aeneus*, *Auchenophorus* 256  
*aequifasciatus*, *Paralastor* 182  
*aestuans*, *Tachytes* 237  
*affine*, *Zoyphium* 251  
*affinis*, *Aphelotoma* 219  
*affinis*, *Sericophorus* (*Zoyphidium*) 251  
*agitata*, *Liris* (*Leptolarra*) 234  
*agitata*, *Notogonia* 234  
*Aha* 244  
*Aha evansi* 244  
*Aha ha* 244  
*ahasverus*, *Sphex* (*Sphex*) 222  
*alariformis*, *Odynerus* 198  
*alariformis*, *Parifodynerus* 198  
*alaris*, *Odynerus* (*Leionotus*) 201  
*alaris*, *Pseudepipona* 201  
*Alastor abnormis* 182  
*Alastor albocinctus* 193  
*Alastor argentifrons* 183  
*Alastor australis* 184  
*Alastor carinatus* 184  
*Alastor clotho* 165  
*Alastor emarginatus* 187

- Alastor eriurgus* 187  
*Alastor lachesis* 189  
*Alastor* (Paralastor) *brunneus* 184  
*Alastor* (Paralastor) *cruentatus* 185  
*Alastor* (Paralastor) *flaviceps* 188  
*Alastor* (Paralastor) *fraternus* 188  
*Alastor* (Paralastor) *infernalis* 189  
*Alastor* (Paralastor) *insularis* 189  
*Alastor* (Paralastor) *lateritis* 190  
*Alastor* (Paralastor) *maculiventris* 190  
*Alastor* (Paralastor) *nautarum* 191  
*Alastor* (Paralastor) *pusillus* 193  
*Alastor* (Paralastor) *sanguineus* 194  
*Alastor* (Paralastor) *smithii* 195  
*Alastor* (Paralastor) *tridentatus* 200  
*Alastor* (Paralastor) *vulneratus* 197  
*Alastor* (Paralastor) *vulpinus* 197  
*Alastor parca* 192  
*Alastor picteti* 192  
*Alastor punctulatus* 193  
*Alastor similis* 193  
*Alastor tasmaniensis* 196  
*Alastor tuberculatus* 196  
*alastoripennis*, Odynerus (Ancistrocerus) 182  
*alastoripennis*, Paralastor 182  
*Alastoroides* 164  
*alastoroides*, *Cerceris* 296  
*Alastoroides clotho* 165  
*albifrons*, Paralastor 182  
*albifrons*, *Vespa* 182  
*albitarsatum huonense*, *Trypoxylon* (*Trypoxylon*) 264  
*albitarsatum*, *Trypoxylon* (*Trypoxylon*) 264  
*albocinctus*, *Alastor* 193  
*albohirta*, *Isodontia* 226  
*albohirtus*, *Sphex* (*Isodontia*) 226  
*alecto*, *Larra* 234  
*alecto*, *Larrada* 234  
*alecto*, Odynerus 181  
*alevinus*, *Podagritus* (*Echuca*) 269  
*alexandriae*, Odynerus (*Rhynchium*) *angulatus* 201  
*alexandriae*, Paralastor 182  
*alexandriae*, *Pseudepipona angulata* 201  
*aliceae*, *Sericophorus* 245  
*aliceae*, *Sericophorus* (*Sericophorus*) 245  
*aliciae*, *Macrocalymma* 180  
*aliciae*, *Paragia* (*Paragia*) *decipiens* 155  
*aliciae*, *Podagritus* (*Echuca*) 269  
*aliciae*, *Rhopalum* 269  
*Allorhynchium* 165  
*Allorhynchium iridipenne* 165  
*allunga*, *Bembix* 285  
*Alyson tomentosum* 303  
*amaliae*, *Acarozumia* 164  
*amaliae*, *Nortonia* 164  
*amator*, *Sphex* 223  
*amicus*, Antamenes (*Australochilus*) 167  
*amicus*, *Pachymenes* 167  
*Ammatomus* 283  
*Ammatomus austrinus* 284  
*Ammatomus decoratus* 284  
*Ammatomus icarioides* 284  
*Ammophila* 228  
*Ammophila ardens* 229  
*Ammophila atripes* 229  
*Ammophila aurifera* 229  
*Ammophila clavus* 229  
*Ammophila eyrensis* 229  
*Ammophila impatiens* 229  
*Ammophila instabilis* 229  
*Ammophila* (*Parapsammophila*) *eremophila* 228  
*Ammophila suspiciosa* 228  
*Ampulex* 220  
*Ampulex compressa* 220  
*Ampulex micans* 220  
**Ampulicinae** 151  
*Anacrucis* 251  
*Anacrucis asperithorax* 251  
*Anacrucis cingulata* 251  
*Anacrucis clypeata* 251  
*Anacrucis ferruginea* 252  
*Anacrucis laevigata* 253  
*Anacrucis punctuosa* 253  
*Anacrucis striatula* 254  
*analis*, *Ischnocoelia robusta* 179  
*Ancistroceroides* 182  
(*Ancistroceroides*) *cruentus*, Odynerus 185  
(*Ancistroceroides*) *sanguinolentus*, Odynerus 200  
*Ancistrocerus* 165  
(*Ancistrocerus*) *alastoripennis*, Odynerus 182  
*Ancistrocerus fluvialis* 165  
(*Ancistrocerus*) *fluvialis*, Odynerus 165  
*Ancistrocerus* (*Subancistrocerus*) *monstricornis* 207  
(*Ancistrocerus*) *vernalis*, Odynerus 166  
*Androcrabro* 274  
(*Androcrabro*) *bivittata*, *Williamsita* 275  
(*Androcrabro*) *bushiella*, *Williamsita* 275  
(*Androcrabro*) *manifestata*, *Williamsita* 275  
(*Androcrabro*) *neglecta*, *Williamsita* 275  
(*Androcrabro*) *ordinaria*, *Williamsita* 275  
(*Androcrabro*) *riekiella*, *Williamsita* 275  
(*Androcrabro*) *smithiensis*, *Williamsita* 275  
(*Androcrabro*) *tasmanica*, *Williamsita* 276  
(*Androcrabro*) *vedetta*, *Williamsita* 276  
(*Androcrabro*), *Williamsita* 274  
*anerus*, *Podagritus* (*Echuca*) 270  
*angulata alexandriae*, *Pseudepipona* 201  
*angulata angulata*, *Pseudepipona* 201  
*angulata*, *Pseudepipona* 201  
*angulata*, *Pseudepipona angulata* 201  
*angulata*, *Riekia* 154  
*angulatus alexandriae*, Odynerus (*Rhynchium*) 201  
*angulatus*, Odynerus 201  
*anguloides*, *Pseudalastor* 199  
*anostreptus*, Paralastor 183  
*Antamenes* 166  
*Antamenes* (*Antamenes*) 166  
(*Antamenes*), *Antamenes* 166  
*Antamenes* (*Antamenes*) *pseudoneotropicus* 166  
*Antamenes* (*Antamenes*) *tasmaniae* 166  
*Antamenes* (*Antamenes*) *vernalis* 166  
*Antamenes* (*Antamenes*) *vorticosis* 166  
*Antamenes* (*Australochilus*) 167  
*Antamenes* (*Australochilus*) *amicus* 167  
*Antamenes* (*Australochilus*) *citreoocinctus* 167  
*Antamenes* (*Australochilus*) *ferrugineus* 167  
*Antamenes* (*Australochilus*) *flavoniger* 167  
*Antamenes* (*Australochilus*) *hackeri* 167  
*Antamenes* (*Australochilus*) *hostilis* 167  
*Antamenes* (*Australochilus*) *jugulatus* 167  
(*Antamenes*) *pseudoneotropicus*, *Antamenes* 166



- (Antamenes) *tasmaniae*, Antamenes 166  
 (Antamenes) *vernalis*, Antamenes 166  
 (Antamenes) *vorticosus*, Antamenes 166  
*anteum*, Rhopalum (Corynopus) 267  
*anteum*, Rhopalum (Rhopalum) 267  
*anthicivora*, Cerceris 296  
*antipodes*, Cerceris 296  
*antipodum*, Bembecinus 284  
*antipodum*, Stizus 284  
*Aphelotoma* 219  
*Aphelotoma affinis* 219  
*Aphelotoma aterrima* 220  
*Aphelotoma auricula* 219  
*Aphelotoma auriventris* 219  
*Aphelotoma fuscata* 219  
*Aphelotoma melanogaster* 219  
*Aphelotoma nigracula* 219  
*Aphelotoma rufiventris* 219  
*Aphelotoma striaticollis* 219  
*Aphelotoma tasmanica* 219  
*Aphelotoma tasmanica auriventris* 219  
*Aphelotoma tasmanica tasmanica* 219  
*apicalis*, Eumenes 176  
**Apoidea** 151  
*approximatus*, Arpactophilus 230  
*approximatus*, Austrostigmus 230  
*approximatus*, Tachytes 237  
*arator*, Arpactophilus 230  
*arator*, Harpactophilus 230  
*arcuata arcuata*, Delta 170  
*arcuata*, Delta 170  
*arcuata*, Delta *arcuata* 170  
*arcuata*, Vespa 170  
*ardens*, Ammophila 229  
*arenicola*, Paralastor 183  
*areniferum*, Pison (Pison) 257  
*argentatus*, Spheg 222  
*argentatus*, Spheg (Spheg) 222  
*argentifrons*, Alastor 183  
*argentifrons*, Paralastor 183  
*argentifrons*, Spheg 225  
*Argogorytes* 280  
*Argogorytes crucigera* 280  
*Argogorytes rubrosignatus* 280  
*Argogorytes rufomixtus* 281  
*Argogorytes secernendus* 281  
*Argogorytes stenopygus* 280  
*argyreum*, Zoyphium 251  
*argyreus*, Sericophorus (Zoyphidium) 251  
*argyrias*, Paralastor 183  
*armigera*, Cerceris 297  
*armigera rufofusca*, Cerceris 297  
*Arpactophilus* 218, 230  
*Arpactophilus approximatus* 230  
*Arpactophilus arator* 230  
*Arpactophilus dubius* 231  
*Arpactophilus glabrellus* 231  
*Arpactophilus kohlii* 231  
*Arpactophilus queenslandensis* 231  
*Arpactophilus reticulatus* 231  
*Arpactophilus ruficollis* 231  
*Arpactophilus steindachneri* 231  
*Arpactophilus steindachneri deserticolus* 231  
*Arpactophilus steindachneri steindachneri* 231  
*Arpactophilus sulcatus* 231  
*Arpactophilus tricolor* 232  
*Arpactus aurantiacus* 281  
*Arpactus browni* 281  
*Arpactus chrysozonus* 281  
*Arpactus consuetipes* 282  
*Arpactus crucigera* 280  
*Arpactus (Miscothyris) guttatus* 279  
*Arpactus (Miscothyris) plomleyi* 280  
*Arpactus obesus* 282  
*Arpactus pretiosus* 282  
*Arpactus rubrosignatus* 280  
*Arpactus secernendus* 281  
*Arpactus spinicornis* 282  
*Arpactus spryi* 282  
*aruensis*, Delta *incola* 171  
*aruensis*, Eumenes (Delta) *incola* 171  
*asperithorax*, Anacrucis 251  
*asperithorax*, Sericophorus (Zoyphidium) 251  
*aspra*, Pseudepipona 201  
*aspra*, Pseudepipona (Pseudepipona) 201  
*assatus*, Delta *campaniformis* 171  
*assatus*, Eumenes *campaniformis* 171  
*Astata* 233  
*Astata australasiae* 233  
*Astaurus* 279  
*Astaurus hylaeoides* 280  
*Astaurus tenuicornis* 280  
*aterrima*, Aphelotoma 220  
*aterrima*, Austrotoma 220  
*aterrimus*, Paralastor 183  
*atrifrons*, Bembex 285  
*atrifrons*, Bembix 285  
*atripennis*, Paralastor 183  
*atripes*, Ammophila 229  
*atrum*, Rhynchium 203  
*Auchenophorus* 256  
*Auchenophorus aeneus* 256  
*Auchenophorus coruscans* 256  
*Auchenophorus fulvicornis* 257  
*(Aulacophilus) difficile*, Pison 263  
*(Aulacophilus) icarioides*, Pison 263  
*aurantiaca*, Cerceris 297  
*aurantiaca*, Ischnocoelia *robusta* 179  
*aurantiacus*, Arpactus 281  
*aurantiacus*, Austrogorytes 281  
*aurantiopicta*, Bidentodynerus *bicolor* 170  
*aurantiopictus*, Odynerus (Rhynchium) *bicolor* 170  
*aurantiopilosella*, Pseudepipona (Syneuodynerus) 207  
*aurantiopilosellus*, Syneuodynerus 207  
*auratum*, Pison (Pison) 257  
*auratus*, Pison 257  
*aureofasciata*, Bembex 286  
*aureofasciata*, Bembix 286  
*aureosericeum*, Pison 257  
*aureosericeum*, Pison (Pison) 257  
*auricula*, Aphelotoma 219  
*aurifera*, Ammophila 229  
*aurifex*, Pison 257  
*aurifex*, Pison (Pison) 257  
*aurifex*, Spheg 226  
*aurifrons*, Isodontia 226  
*aurifrons*, Spheg 226  
*auriventre*, Pison 258  
*auriventre*, Pison (Pison) 258  
*auriventris*, Aphelotoma 219

- auriventris, *Aphelotoma tasmanica* 219  
 aurocinctus, *Odynerus* 183  
 aurocinctus, *Paralastor* 183  
 auster, *Paralastor* 184  
 austragilis, *Dasyproctus* 274  
 australasiae, *Astata* 233  
 australense, *Rhynchium* 204  
 australensis, *Ectoploglossa* 174  
 australensis, *Ectoploglossa polita* 174  
 australensis, *Eumenes* (*Pareumenes*) 174  
 australensis, *Montezumia* 164  
 australensis, *Pseudozethus* 202  
 australiae, *Rhopalum* (*Corynopus*) 267  
 australiae, *Rhopalum* (*Rhopalum*) 267  
 australiana, *Abispa* (*Abispa*) 161  
 australiana, *Vespa* (*Abispa*) 161  
 australiensis, *Nitela* 256  
 australiensis, *Podagrirus* (*Echuca*) 270  
 australis, *Abispa* 161  
 australis, *Abispa* (*Abispa*) *splendida* 161  
 australis, *Alastor* 184  
 australis australis, *Paragia* (*Paragiella*) 156  
 australis borealis, *Paragia* (*Paragiella*) 156  
 australis, *Cerceris* 297  
 australis, *Elimus* 174  
 australis, *Liris* 236  
 australis, *Palmodes* 227  
 australis, *Paragia* 156  
 australis, *Paragia* (*Paragiella*) 156  
 australis, *Paragia* (*Paragiella*) *australis* 156  
 australis, *Paralastor* 184  
 australis, *Pison* 262  
 australis, *Spilomena* 232  
 australis, *Tachytes* 236, 240  
*Australochilus* 167  
 (*Australochilus*) *amicus*, *Antamenes* 167  
 (*Australochilus*) *Antamenes* 167  
 (*Australochilus*) *citreoocinctus*, *Antamenes* 167  
 (*Australochilus*) *ferrugineus*, *Antamenes* 167  
 (*Australochilus*) *flavoniger*, *Antamenes* 167  
 (*Australochilus*) *hackeri*, *Antamenes* 167  
 (*Australochilus*) *hostilis*, *Antamenes* 167  
 (*Australochilus*) *jugulatus*, *Antamenes* 167  
*Australodynerus* 168  
*Australodynerus convexus* 168  
*Australodynerus merredinensis* 168  
*Australodynerus merredinensis everardensis* 168  
*Australodynerus merredinensis merredinensis* 168  
*Australodynerus merredinensis victoriensis* 168  
*Australodynerus punctiventris* 168  
*Australodynerus pusilloides* 168  
*Australodynerus pusilloides impudicus* 168  
*Australodynerus pusilloides pusilloides* 168  
*Australodynerus pusillus* 168  
*Australodynerus yanchepensis* 206  
*Australodynerus yanchepensis nigrithorax* 206  
*Australozethus* 169  
*Australozethus continentalis* 169  
*Australozethus occidentalis* 169  
*Australozethus tasmaniensis* 169  
*Australozethus tasmaniensis montanus* 169  
*Australozethus tasmaniensis tasmaniensis* 169  
*austrinus*, *Ammatomus* 284  
*austrinus*, *Gorytes* 284  
*austrinus*, *Polistes* (*Polistella*) *townsvillensis* 213  
*Austrogorytes* 281  
*Austrogorytes aurantiacus* 281  
*Austrogorytes bellicosus* 281  
*Austrogorytes browni* 281  
*Austrogorytes chrysozonus* 281  
*Austrogorytes ciliatus* 281  
*Austrogorytes consuetipes* 282  
*Austrogorytes cygnorum* 282  
*Austrogorytes frenchii* 282  
*Austrogorytes obesus* 282  
*Austrogorytes perkinsi* 282  
*Austrogorytes pretiosus* 282  
*Austrogorytes spinicornis* 282  
*Austrogorytes spyri* 282  
*Austrogorytes tarsatus* 283  
*Austrostigmus* 230  
*Austrostigmus approximatus* 230  
*Austrostigmus dubius* 231  
*Austrostigmus glabrellus* 231  
*Austrostigmus reticulatus* 231  
*Austrostigmus ruficollis* 231  
*Austrotoma* 220  
*Austrotoma aterrima* 220  
*azyx*, *Larissus* 256  
*balder*, *Polistes* 209  
*balder*, *Polistes* (*Megapolistes*) 209  
*balteata*, *Cerceris* 297  
*balyi*, *Odynerus* 202  
*bannitus*, *Spheg* 225  
*barbatum*, *Pison* (*Pison*) 258  
*baringa*, *Bembix* 286  
*basale*, *Pison* (*Pison*) 258  
*basalis*, *Acanthostethus* 278  
*basalis*, *Pison* 258  
*basilicus*, *Chlorion* (*Proterospheg*) 223  
*basilicus*, *Spheg* (*Spheg*) 223  
*basilissa*, *Liris* (*Leptolarra*) 235  
*basilissa*, *Notogonia* 235  
*bellicosus*, *Austrogorytes* 281  
*bellicosus*, *Gorytes* 281  
*Bembecinus* 284  
*Bembecinus antipodum* 284  
*Bembecinus egens* 284  
*Bembecinus gorytoides* 284  
*Bembecinus hirtula* 285  
*Bembecinus monodon* 284  
*Bembecinus signatus* 285  
*Bembecinus turneri* 285  
*Bembex* 285  
*Bembex atrifrons* 285  
*Bembex aureofasciata* 286  
*Bembex calcarina* 288  
*Bembex crabroniformis* 294  
*Bembex cursitans* 287  
*Bembex egens* 287  
*Bembex flavifrons* 287  
*Bembex flavilabris* 285  
*Bembex flavipes* 287  
*Bembex flaviventris* 288  
*Bembex funebris* 285  
*Bembex furcata* 288  
*Bembex lamellata* 289  
*Bembex latifasciata* 289

- Bembex leeuwinensis* 289  
*Bembex littoralis* 289  
*Bembex lobimana* 290  
*Bembex mackayensis* 291  
*Bembex marsupiata* 290  
*Bembex musca* 291  
*Bembex nigropectinatus* 291  
*Bembex palmata* 292  
*Bembex pectinipes* 292  
*Bembex raptor* 294  
*Bembex saussurei* 287  
*Bembex severa* 293  
*Bembex trepida* 293  
*Bembex tridentifera* 292  
*Bembex tuberculiventris* 294  
*Bembex variabilis* 294  
*Bembex vespiformis* 294  
*Bembex* 150, 218, 285  
*Bembex allunga* 285  
*Bembex atrifrons* 285  
*Bembex aureofasciata* 286  
*Bembex baringa* 286  
*Bembex berontha* 286  
*Bembex boaliri* 286  
*Bembex boonamin* 286  
*Bembex brevis* 287  
*Bembex buntor* 286  
*Bembex burando* 286  
*Bembex burraburra* 286  
*Bembex carripan* 286  
*Bembex cooba* 286  
*Bembex coonundura* 287  
*Bembex cursitans* 287  
*Bembex egens* 287  
*Bembex eleebana* 287  
*Bembex flavifrons* 287  
*Bembex flavipes* 287  
*Bembex flaviventris* 288  
*Bembex flavolatera* 289  
*Bembex furcata* 288  
*Bembex gelane* 288  
*Bembex ginjulla* 288  
*Bembex goyarra* 288  
*Bembex gunamarra* 288  
*Bembex gurindji* 288  
*Bembex hokarra* 288  
*Bembex kamulla* 288  
*Bembex kora* 289  
*Bembex kununurra* 289  
*Bembex lamellata* 289  
*Bembex latifasciata* 289  
*Bembex leeuwinensis* 289  
*Bembex littoralis* 289  
*Bembex lobimana* 290  
*Bembex loorea* 290  
*Bembex magari* 290  
*Bembex maliki* 290  
*Bembex mareeba* 290  
*Bembex marhra* 290  
*Bembex marsupiata* 290  
*Bembex mianga* 290  
*Bembex minya* 291  
*Bembex mokari* 291  
*Bembex moma* 291  
*Bembex moonga* 291  
*Bembex mundurra* 291  
*Bembex munta* 291  
*Bembex musca* 291  
*Bembex nigropectinata* 291  
*Bembex obiri* 291  
*Bembex octosetosa* 292  
*Bembex olba* 292  
*Bembex oomborra* 292  
*Bembex ourapilla* 292  
*Bembex palmata* 292  
*Bembex palona* 292  
*Bembex pectinipes* 292  
*Bembex pikati* 293  
*Bembex pillara* 293  
*Bembex promontorii* 293  
*Bembex pulka* 293  
*Bembex severa* 293  
*Bembex thooma* 293  
*Bembex tibooburra* 293  
*Bembex trepida* 293  
*Bembex tuberculiventris* 294  
*Bembex uloola* 294  
*Bembex undeneya* 294  
*Bembex variabilis* 294  
*Bembex vespiformis* 294  
*Bembex victoriensis* 294  
*Bembex wadamiri* 294  
*Bembex wangoola* 295  
*Bembex wanna* 295  
*Bembex warawara* 295  
*Bembex weema* 295  
*Bembex wilcannia* 295  
*Bembex wiluna* 295  
*Bembex wollowra* 295  
*Bembex wolpa* 295  
*Bembex wowine* 295  
*Bembex yalta* 296  
*Bembex yunkara* 296  
*bengalense*, *Chalybion* 220  
*bengalensis*, *Pelopoeus* 220  
*bernardii bernardii*, *Polistes* (*Polistella*) 211  
*bernardii duplicinctus*, *Polistes* 213  
*bernardii duplicinctus*, *Polistes* (*Polistella*) 211  
*bernardii insulae*, *Polistes* (*Polistella*) 211  
*bernardii*, *Polistes* 211  
*bernardii*, *Polistes* (*Polistella*) 211  
*bernardii*, *Polistes* (*Polistella*) *bernardii* 211  
*bernardii richardsi*, *Polistes* (*Polistella*) 211  
*berontha*, *Bembex* 286  
**Bethyloidea** 151  
*bicarinatus*, *Paralastor* 184  
*bicincta*, *Eumenes* 171  
*bicincta*, *Parodynerus* 198  
*bicincta*, *Vespa* 198  
*bicinctus*, *Delta* 171  
*bicolor aurantiopicta*, *Bidentodynerus* 170  
*bicolor aurantiopictus*, *Odynerus* (*Rhynchium*) 170  
*bicolor bicolor*, *Bidentodynerus* 169  
*bicolor*, *Bidentodynerus* 169  
*bicolor*, *Bidentodynerus bicolor* 169  
*bicolor flavescens*, *Bidentodynerus* 170  
*bicolor flavescens*, *Odynerus* (*Rhynchium*) 170  
*bicolor nigrocinctoides*, *Bidentodynerus* 170  
*bicolor nigrocinctoides*, *Odynerus* (*Rhynchium*) 170  
*bicolor*, *Odynerus* 169



- bicolor, Paragia 157  
 bicolor, Paragia (Paragiella) 157  
 bicolor, Sericophorus 245  
 bicolor, Sericophorus (Sericophorus) 245  
 bicoloratus, Odynerus 205  
 bicoloratus, Stenodyneriellus 205  
 bidens, Paragia 158  
 Bidentodynerus 169  
 Bidentodynerus bicolor 169  
 Bidentodynerus bicolor auriopicta 170  
 Bidentodynerus bicolor bicolor 169  
 Bidentodynerus bicolor flavescens 170  
 Bidentodynerus bicolor nigrocinctoides 170  
 bilobatus, Spheg 223  
 bilobatus, Spheg (Spheg) 223  
 bimaculata, Microglossa 232  
 bimaculata, Spilomena 232  
 bioculata, Polistes 214  
 bischoffi, Paralastor 184  
 bisulcatus, Odynerus (Leionotus) 166  
 bituberculatum, Trypoxylon 264  
 bituberculatum, Trypoxylon (Trypoxylon) 264  
 bivittata, Williamsita (Androcrabro) 275  
 bivittatus, Crabro 275  
 bizonatus, Odynerus 198  
 blumburyensis, Ischnocoelia occidentalis 179  
 boali, Bembix 286  
 boonamin, Bembix 286  
 borealis, Paragia (Paragiella) australis 156  
 brevicornis, Pachycoelius 181  
 brevicornis, Tachysphex 238  
 brevis, Bembix 287  
 brisbanensis, Acanthostethus 277  
 brisbanensis, Cerceris 296  
 brisbanensis, Nysson (Acanthostethus) 277  
 brisbanensis, Paralastor 184  
 brisbanensis, Sericophorus 245  
 brisbanensis, Sericophorus (Sericophorus) 245  
 brisbanensis, Stenodyneriellus 205  
 browni, Arpactus 281  
 browni, Austrogorytes 281  
 brunneus, Alastor (Paralastor) 184  
 brunneus, Paralastor 184  
 buccalis, Tachysphex 239  
 buntor, Bembix 286  
 burando, Bembix 286  
 burnettianus, Dasyproctus 274  
 burnsi, Podagritus (Echuca) 270  
 burnsiellus, Sericophorus claviger 246  
 burnsiellus, Sericophorus (Sericophorus) claviger 246  
 burraburra, Bembix 286  
 bushiella, Williamsita 275  
 bushiella, Williamsita (Androcrabro) 275  
  
 cabeti, Icaria 217  
 cabeti, Ropalidia (Icariella) romandi 217  
 caementarium, Sceliphron (Sceliphron) 221  
 caementarium, Spheg 221  
 cairnensis, Leptomenoides 180  
 calcarina, Bembex 288  
 calida, Cerceris 297  
 calida, Paragia 157  
 calida, Paragia (Paragiella) 157  
 caliginosum, Pison (Parapison) 258  
 caliginosum, Pison (Pison) 258  
 calixtum, Rhopalum (Rhopalum) 265  
 Cameronitus 276  
 (Cameronitus) conglobatus, Ectemnius 277  
 (Cameronitus), Ectemnius 276  
 campaniformis assatus, Delta 171  
 campaniformis assatus, Eumenes 171  
 campaniformis campaniformis, Delta 171  
 campaniformis, Delta 171  
 campaniformis, Delta campaniformis 171  
 campaniformis, Vespa 171  
 canescens, Spheg 223  
 caprai, Paralastor 184  
 carbonaria, Spheg 223  
 carbonarius, Dolichurus 218  
 carbonicolor, Spheg 223  
 carbonicolor, Spheg (Spheg) 223  
 carinatus, Alastor 184  
 carinatus, Discoelius 181  
 carinatus, Pachycoelius 181  
 carinatus, Paralastor 184  
 carinatus, Sericophorus 245  
 carinatus, Sericophorus (Sericophorus) 245  
 carinifrons, Psenulus 230  
 carinifrons scutellatus, Psenulus 230  
 carnarvonensis, Stenodyneriellus 205  
 carnegiacum, Rhopalum (Notorhopalum) 269  
 carnowi, Ischnocoelia integra 178  
 carolus, Podagritus (Echuca) 270  
 carripian, Bembix 286  
 castaneus, Sericophorus 245  
 castaneus, Sericophorus (Sericophorus) 245  
 cavifemur, Pseudalastor 199  
 Celia 232  
 centrocontinentalis, Polistes humilis 212  
 centrocontinentalis, Polistes (Polistella) humilis 212  
 Cerceris 296  
 Cerceris adae 296  
 Cerceris alastoroides 296  
 Cerceris anthicivora 296  
 Cerceris antipodes 296  
 Cerceris armigera 297  
 Cerceris armigera rufofusca 297  
 Cerceris aurentiaca 297  
 Cerceris australis 297  
 Cerceris balteata 297  
 Cerceris brisbanensis 296  
 Cerceris calida 297  
 Cerceris cucullata 298  
 Cerceris cunnamulla 298  
 Cerceris darrensis 298  
 Cerceris dedariensis 298  
 Cerceris euchroma 298  
 Cerceris eungella 298  
 Cerceris exleyae 298  
 Cerceris fluvialis 298  
 Cerceris forcicata 298  
 Cerceris froggatti 298  
 Cerceris gilberti 299  
 Cerceris gilesi 299  
 Cerceris goddardi 299  
 Cerceris goodwini 296  
 Cerceris hackeriana 299  
 Cerceris inexpectata 299  
 Cerceris insulicola 299

- Cerceris iridis* 300  
*Cerceris koala* 301  
*Cerceris labeculata* 300  
*Cerceris latiberbis* 300  
*Cerceris listrognatha* 300  
*Cerceris luculenta* 300  
*Cerceris megacantha* 300  
*Cerceris merredinensis* 300  
*Cerceris minuscula* 300  
*Cerceris multiguttata* 301  
*Cerceris nigrocincta* 297  
*Cerceris opposita* 301  
*Cerceris osculata* 301  
*Cerceris perkinsi* 301  
*Cerceris praedura* 301  
*Cerceris raymenti* 301  
*Cerceris ropalidioides* 301  
*Cerceris saeva* 296  
*Cerceris sculleni* 296 , 297  
*Cerceris sedula* 302  
*Cerceris siccata* 302  
*Cerceris spilota* 302  
*Cerceris spinipleuris* 302  
*Cerceris trifida* 302  
*Cerceris unispinosa* 302  
*Cerceris varipes* 302  
*Cerceris venusta* 299 , 302  
*Cerceris victrix* 302  
*Cerceris windorum* 303  
*Cerceris xanthura* 303  
*Cerceris zieglerei* 296  
*chalybaeus chalybaeus*, *Sericophorus* (*Sericophorus*) 246  
*chalybaeus fulleri*, *Sericophorus* (*Sericophorus*) 246  
*chalybaeus fulleri*, *Sericophorus* (*Sericophorus*) 246  
*chalybaeus*, *Sericophorus* (*Sericophorus*) 246  
*chalybaeus*, *Sericophorus* (*Sericophorus*) *chalybaeus* 246  
*chalybeus*, *Sericophorus* 246  
*Chalybion* 220  
*Chalybion bengalense* 220  
*chartersiformis*, *Pseudepipona* 201  
*Chimiloides* 273  
*Chimiloides doddii* 273  
*Chimiloides nigromaculatus* 273  
*Chimiloides piliferus* 273  
*Chlorion* (*Proterosphe*) *basilicus* 223  
*Chlorion* (*Proterosphe*) *rhodosoma* 225  
*chrysonota*, *Larrada* 235  
*chrysonota*, *Liris* (*Leptolarra*) 235  
*chrysozonus*, *Arpactus* 281  
*chrysozonus*, *Austrogorytes* 281  
*ciliatum*, *Pison* (*Pison*) 258  
*ciliatus*, *Austrogorytes* 281  
*ciliatus*, *Gorytes* 281  
*cinctus*, *Crabro* 276  
*cingulata*, *Anacrucis* 251  
*cingulatus*, *Sericophorus* (*Zoyphidium*) 251  
*circulans*, *Tachysphex* 239  
*citreoecinctus*, *Antamenes* (*Australochilus*) 167  
*citreoecinctus*, *Odynerus* (*Leionotus*) 167  
*clarior*, *Polistes humilis* 212  
*claviger burnsiellus*, *Sericophorus* 246  
*claviger burnsiellus*, *Sericophorus* (*Sericophorus*) 246  
*claviger claviger*, *Sericophorus* (*Sericophorus*) 246  
*claviger*, *Sericophorus* (*Sericophorus*) 246  
*claviger*, *Sericophorus* (*Sericophorus*) *claviger* 246  
*claviger*, *Tachyrhostus* 246  
*clavigera*, *Sphex* 222  
*clavus*, *Ammophila* 229  
*clavus*, *Sphex* 229  
*cliffordi*, *Sericophorus* 246  
*cliffordi*, *Sericophorus* (*Sericophorus*) 246  
*Clitemnestra* 279  
*Clitemnestra duboulayi* 279  
*Clitemnestra guttatulus* 279  
*Clitemnestra lucidulus* 279  
*Clitemnestra megalophthalmus* 279  
*Clitemnestra mimetica* 279  
*Clitemnestra perlucidus* 279  
*Clitemnestra plomleyi* 280  
*Clitemnestra sanguinolentus* 280  
*Clitemnestra tenuicornis* 280  
*Clitemnestra thoracicus* 280  
*clotho*, *Alastor* 165  
*clotho*, *Alastoroides* 165  
*clypalaris*, *Pseudepipona* 202  
*clypeata*, *Anacrucis* 251  
*clypeatus*, *Acarodynerus* 162  
*clypeatus*, *Odynerus* (*Leionotus*) 162  
*clypeatus*, *Sericophorus* (*Zoyphidium*) 251  
*clypeopunctatus*, *Paralastor* 184  
*cockerelli*, *Sericophorus* (*Sericophorus*) 246  
*codonocarpi*, *Tachytes* 237  
*cognata*, *Sphex* 223  
*cognatus*, *Sphex* (*Sphex*) 223  
**Coleoptera** 160  
*collare*, *Zoyphium* 251  
*collaris*, *Sericophorus* (*Zoyphidium*) 251  
**Collembola** 218  
**Colletidae** 151  
*commixta*, *Liris* (*Leptolarra*) 235  
*commixta*, *Notogonia* 235  
*commutatus*, *Paralastor* 185  
*compressa*, *Ampulex* 220  
*compressa*, *Sphex* 220  
*comptus comptus*, *Paralastor* 185  
*comptus*, *Paralastor* 185  
*comptus*, *Paralastor comptus* 185  
*comptus rubescens*, *Paralastor* 185  
*conator*, *Crabro* (*Rhopalum*) 274  
*conator*, *Dasyproctus* 274  
*concinna*, *Paragia* 159  
*concolor concolor*, *Pseudalastor* 199  
*concolor*, *Odynerus* (*Leionotus*) 199  
*concolor*, *Pseudalastor* 199  
*concolor*, *Pseudalastor concolor* 199  
*concolor rapax*, *Pseudalastor* 200  
*confertus*, *Acanthostethus* 277  
*confertus*, *Nysson* (*Acanthostethus*) 277  
*confusa*, *Pseudabispa* 199  
*confusus*, *Pseudozethus* 202  
*congener*, *Pison* 258  
*congenerum*, *Pison* (*Pison*) 258  
*conglobatus*, *Crabro* 277  
*conglobatus*, *Ectemnius* (*Cameronitus*) 277  
*connexum*, *Trypoxylon* 265  
*connexum*, *Trypoxylon* (*Trypoxylon*) *schmiedeknechti* 265  
*conspiciendus*, *Paralastor* 185  
*conspiciuus*, *Paralastor* 185  
*constrictus*, *Paralastor* 185

- consuetipes, Arpactus 282  
 consuetipes, Austrogorytes 282  
 continentalis, Australozethus 169  
 contrarius, Tachysphex 239  
 convexus, Australodynerus 168  
 cooba, Bembix 286  
 coonundura, Bembix 287  
 corallinus, Tachysphex fanuiensis 239  
 coriolum, Rhopalum (Corynopus) 267  
 coriolum, Rhopalum (Rhopalum) 267  
 cornigerum, Podagritus (Echuca) 270  
 cornigerum, Rhopalum (Rhopalum) 270  
 coruscans, Auchenophorus 256  
 Corynopus 267  
 (Corynopus) anteum, Rhopalum 267  
 (Corynopus) australiae, Rhopalum 267  
 (Corynopus) coriolum, Rhopalum 267  
 (Corynopus) dedarum, Rhopalum 267  
 (Corynopus) evansianum, Rhopalum 267  
 (Corynopus) evictum, Rhopalum 267  
 (Corynopus) famicum, Rhopalum 267  
 (Corynopus) frenchii, Rhopalum 268  
 (Corynopus) harpax, Rhopalum 268  
 (Corynopus) kerangi, Rhopalum 268  
 (Corynopus) kuehlhorni, Rhopalum 268  
 (Corynopus) littorale, Rhopalum 268  
 (Corynopus) nevoissi, Rhopalum 268  
 (Corynopus) notogeum, Rhopalum 268  
 (Corynopus), Rhopalum 267  
 (Corynopus) taeniatum, Rhopalum 268  
 (Corynopus) tubarum, Rhopalum 269  
 (Corynopus) variitarse, Rhopalum 269  
 (Corynopus) xenum, Rhopalum 269  
 couloni, Pseudoturneria 272  
 Crabro bivittatus 275  
 Crabro cinctus 276  
 Crabro conglobatus 277  
 Crabro doddii 273  
 Crabro erythrogaster 273  
 Crabro hebetescens 276  
 Crabro mackayensis 276  
 Crabro neglectus 275  
 Crabro nigromaculatus 273  
 Crabro ordinarius 275  
 Crabro perlucidus 272  
 Crabro prosopoides 273  
 Crabro (Rhopalum) conator 274  
 Crabro (Rhopalum) frenchii 268  
 Crabro (Rhopalum) idoneus 272  
 Crabro (Rhopalum) militaris 271  
 Crabro (Rhopalum) tenuiventris 266  
 Crabro (Rhopalum) transiens 266  
 Crabro (Solenius) manifestatus 275  
 Crabro tasmanicus 276  
 Crabro tricolor 271  
 Crabro tridentatus 275  
 Crabro veitchi 273  
 crabroniformis, Bembex 294  
 crassicornis, Zoyphium 251  
 crassicornis, Sericophorus (Zoyphidium) 251  
 crassipes, Larrada 235  
 Cratolarra 233  
 (Cratolarra) femorata, Larra 233  
 (Cratolarra), Larra 233  
 crucigera, Argogorytes 280  
 crucigera, Arpactus 280  
 cruentatus, Alastor (Paralastor) 185  
 cruentatus, Paralastor 185  
 cruentus, Odynerus (Ancistroceroides) 185  
 cruentus, Paralastor 185  
 cucullata, Cerceris 298  
 cunnamulla, Cerceris 298  
 cursitans, Bembex 287  
 cursitans, Bembix 287  
 cyaneus, Tachyrrhostus 246  
 cyanophilus, Sericophorus 247  
 cyanophilus, Sericophorus (Sericophorus) 247  
 Cygnaea 155  
 (Cygnaea), Paragia 155  
 (Cygnaea) vespiformis, Paragia 155  
 cygnorum, Austrogorytes 282  
 cygnorum, Gorytes 282  
 cygnorum, Podagritus (Echuca) 270  
 cygnorum, Rhopalum 270  
 cygnorum, Sceliphron laetum 221  
 cygnorum, Sphodrotes 254  
 darnleyensis, Stenodyneriellus 205  
 darrensis, Cerceris 298  
 darwini, Ropalidia (Icariola) 214  
 darwinianus, Paralastor 186  
 darwiniensis, Spheg 223  
 darwiniensis, Spheg (Spheg) 223  
 Dasyproctus 274  
 Dasyproctus austragilis 274  
 Dasyproctus burnettianus 274  
 Dasyproctus conator 274  
 Dasyproctus expectatus 274  
 Dasyproctus verutus 266  
 Dasyproctus yorki 274  
 dearmata, Sphodrotes 254  
 debilis, Paralastor 186  
 debilis, Tachysphex 243  
 debilitatus, Paralastor 186  
 deceptor, Icaria 214  
 deceptor, Paragia 157  
 deceptor, Ropalidia (Icariola) 214  
 deceptrix, Paragia (Paragiella) 157  
 decipiens aliciae, Paragia (Paragia) 155  
 decipiens decipiens, Diemodynerus 173  
 decipiens decipiens, Paragia (Paragia) 155  
 decipiens, Diemodynerus 173  
 decipiens, Diemodynerus decipiens 173  
 decipiens, Odynerus (Leionotus) 173  
 decipiens, Paragia 155  
 decipiens, Paragia (Paragia) 155  
 decipiens, Paragia (Paragia) decipiens 155  
 decipiens, Pison 258  
 decipiens, Pison (Pison) 258  
 decipiens positus, Diemodynerus 173  
 decorata, Spheg 224  
 decoratum, Rhynchium 174  
 decoratus, Ammatomus 284  
 decoratus, Epimodys 174  
 decoratus, Gorytes 284  
 decoratus, Odynerus (Leionotus) 181  
 decoratus, Spheg (Spheg) 224  
 dedariensis, Cerceris 298  
 dedarum, Rhopalum (Corynopus) 267



- dedarum, Rhopalum (Rhopalum) 267  
 Delta 170  
 Delta arcuata 170  
 Delta arcuata arcuata 170  
 Delta bicinctus 171  
 Delta campaniformis 171  
 Delta campaniformis assatus 171  
 Delta campaniformis campaniformis 171  
 Delta incola 171  
 Delta incola aruensis 171  
 (Delta) incola aruensis, Eumenes 171  
 Delta incola teleporus 171  
 Delta latreillei 172  
 Delta latreillei latreillei 172  
 Delta nigratarsis 172  
 Delta philantes 172  
 Delta transmarinum 172  
 Delta xanthurum 172  
 Delta xanthurum xanthurum 172  
 denticulatus, Acarodynerus 162  
 dentiger, Paralastor 186  
 deperditum, Pison (Pison) 258  
 deperditum, Pison (Pisonitus) 258  
 depressiventris, Tachysphex 239  
 deserticolus, Arpactophilus steindachneri 231  
 deserticolus, Harpactophilus steindachneri 231  
 despectus, Paralastor 186  
 diabolicus, Paralastor 186  
 diadema, Paralastor 186  
 Dicranorhina 237  
 Dicranorhina intaminata 237  
 diemensis, Diemodynerus 173  
 diemensis, Odynerus (Leionotus) 173  
 Diemodynerus 173  
 Diemodynerus decipiens 173  
 Diemodynerus decipiens decipiens 173  
 Diemodynerus decipiens positus 173  
 Diemodynerus diemensis 173  
 Diemodynerus pseudacarodynerus 173  
 Diemodynerus saucius 173  
 dietrichianus, Acarodynerus 162  
 dietrichianus, Acarodynerus dietrichianus 162  
 dietrichianus dietrichianus, Acarodynerus 162  
 dietrichianus, Odynerus (Odynerus) 162  
 dietrichianus rufocaudatus, Acarodynerus 162  
 difficile, Pison (Aulacophilus) 263  
 difficile, Pison (Pisonoides) 263  
 dimidiatum, Pison (Pison) 258  
 dimidiatus, Pison 258  
 dineurum, Rhopalum (Rhopalum) 266  
**Diptera** 218  
 dipteroides, Sericophorus 252  
 dipteroides, Sericophorus (Zoyphidium) 252  
 Discoelius carinatus 181  
 Discoelius ecclesiasticus 177  
 Discoelius elongatus 178  
 Discoelius ephippium 202  
 Discoelius insignis 203  
 Discoelius spinosus 203  
 Discoelius verreauxii 203  
 discrepans, Tachysphex 239  
 dispersus, Tachytes 237  
 dives, Pison 259  
 dives, Pison (Pison) 259  
 dizonus, Gorytes 281  
 doddi, Metaparagia 155  
 doddi, Sericophorus (Zoyphidium) 252  
 doddi, Zoyphium 252  
 doddii, Chimiloides 273  
 doddii, Crabro 273  
 dolichocerus, Spheg (Spheg) 225  
 Dolichurus 218  
 Dolichurus carbonarius 218  
 dominula, Vespa 209  
 dominulus, Polistes (Polistes) 209  
 donatus, Paralastor 186  
 doreeni, Podagritus (Echuca) 270  
 drewseni, Odynerus 181  
 drewsenianus, Acarodynerus 162  
 dubiosus, Paralastor 186  
 dubius, Arpactophilus 231  
 dubius, Austrostigmus 231  
 duboulayi, Clitemnestra 279  
 duboulayi, Gorytes 279  
 duplicinctus, Polistes bernardii 213  
 duplicinctus, Polistes (Polistella) bernardii 211  
 dyscritias, Paralastor 187  
 eboraca, Ropalidia (Ropalidia) 213  
 ecclesiastica, Ischnocoelia 177  
 ecclesiasticus, Discoelius 177  
 Echuca 269  
 (Echuca) alevinus, Podagritus 269  
 (Echuca) aliciae, Podagritus 269  
 (Echuca) anerus, Podagritus 270  
 (Echuca) australiensis, Podagritus 270  
 (Echuca) burnsi, Podagritus 270  
 (Echuca) carolus, Podagritus 270  
 (Echuca) cornigerum, Podagritus 270  
 (Echuca) cygnorum, Podagritus 270  
 (Echuca) doreeni, Podagritus 270  
 (Echuca) edgarus, Podagritus 270  
 (Echuca) imbelles, Podagritus 270  
 (Echuca) kiatae, Podagritus 271  
 (Echuca) krombeini, Podagritus 271  
 (Echuca) leptospermi, Podagritus 271  
 (Echuca) marcellus, Podagritus 271  
 (Echuca) mullewanus, Podagritus 271  
 (Echuca) peratus, Podagritus 271  
 (Echuca), Podagritus 269  
 (Echuca) rieki, Podagritus 271  
 (Echuca) tricolor, Podagritus 271  
 (Echuca) yarrowi, Podagritus 272  
 Ectemnius 276  
 Ectemnius (Cameronitus) 276  
 Ectemnius (Cameronitus) conglobatus 277  
 Ectemnius (Hypocrabro) 276  
 Ectemnius (Hypocrabro) hebetescens 276  
 Ectemnius (Hypocrabro) mackayensis 276  
 Ectemnius (Hypocrabro) reginellus 276  
 Ectopioglossa 174  
 Ectopioglossa australensis 174  
 Ectopioglossa polita 174  
 Ectopioglossa polita australensis 174  
 edgarus, Podagritus (Echuca) 270  
 egens, Bembecinus 284  
 egens, Bembex 287  
 egens, Bembix 287  
 egens, Stizus 284

- eleebana, *Bembix* 287  
 elegans, *Paralastor* 187  
 elegantior, *Sericophorus* 247  
 elegantior, *Sericophorus* (*Sericophorus*) 247  
 elegantula, *Ropalidia* (*Icariola*) 214  
 elegantula, *Spilomena* 232  
*Elimus* 174  
*Elimus australis* 174  
*Elimus ferrugineus* 178  
*Elimus mackayensis* 174  
*Elimus robustus* 179  
 elongata, *Ischnocoelia* 178  
 elongatus, *Discoelius* 178  
 emarginatum, *Zoyphium* 252  
 emarginatus, *Alastor* 187  
 emarginatus, *Paralastor* 187  
 emarginatus, *Sericophorus* (*Zoyphidium*) 252  
 ephippioides, *Pseudabispa* 199  
 ephippium, *Abispa* (*Abispa*) 161  
 ephippium, *Discoelius* 202  
 ephippium, *Pseudozethus* 202  
 ephippium, *Sphex* 224  
 ephippium, *Sphex* (*Sphex*) 224  
 ephippium, *Vespa* 161  
*Epiodynerus* 174, 181  
*Epiodynerus decoratus* 174  
*Epiodynerus nigrocinctus* 175  
*Epiodynerus nigrocinctus nigrocinctus* 175  
*Epiodynerus tamarinus* 175  
*Epiodynerus tamarinus inviolatus* 175  
*Epiodynerus tamarinus tamarinus* 175  
*Epiodynerus tasmaniensis* 175  
*Epsilon* 160  
*eremophila*, *Ammophila* (*Parapsammophila*) 228  
*eremophila*, *Parapsammophila* 228  
*eriurgus*, *Alastor* 187  
*eriurgus*, *Paralastor* 187  
*ermineus*, *Sphex* (*Sphex*) 224  
 errans, *Gastrosericus* 244  
 errans, *Lyroda* 244  
 erythrinus, *Polistes* 210  
 erythrinus, *Polistes* (*Megapolistes*) 210  
 erythrocerum, *Pison* 259  
 erythrocerum, *Pison* (*Pison*) 259  
 erythrogaster, *Crabro* 273  
 erythrogastrum, *Pison* (*Parapison*) 259  
 erythrogastrum, *Pison* (*Pison*) 259  
 erythrosoma, *Sericophorus* (*Zoyphidium*) 252  
 erythrosoma, *Zoyphium* 252  
 eucalypti, *Rhopalum* 266  
 eucalypti, *Rhopalum* (*Rhopalum*) 266  
 eucalypticus, *Tachysphex* 239  
*Euchalcomenes* 176  
*Euchalcomenes gilberti* 176  
*euchroma*, *Cerceris* 298  
*euclidias*, *Paralastor* 187  
*Eudiscoelius* 176  
*Eudiscoelius gilberti* 176  
*eugonias*, *Paralastor* 187  
*Eumenes* 176  
*Eumenes apicalis* 176  
*Eumenes bicincta* 171  
*Eumenes campaniformis assatus* 171  
*Eumenes* (*Delta*) *incola aruensis* 171  
*Eumenes* (*Eumenes*) *simplicilamellatus* 176  
*Eumenes fluctuans* 176  
*Eumenes incola teleporus* 171  
*Eumenes latreillei* 172  
*Eumenes nigritarsis* 172  
*Eumenes* (*Pareumenes*) *australensis* 174  
*Eumenes philantes* 172  
*Eumenes simplicilamellatus* 176  
 (*Eumenes*) *simplicilamellatus*, *Eumenes* 176  
*Eumenes transmarinus* 172  
*Eumenes xanthura* 172  
**EUMENIDAE** 150, 151, 152, 152  
**Eumeninae** 151  
*eungella*, *Cerceris* 298  
*Euodynerus* 176  
*Euodynerus polyphemus* 177  
*eurostoma*, *Ropalidia* (*Icariola*) 214  
*eustomus*, *Paralastor* 187  
*eutretus*, *Paralastor* 188  
*evansi*, *Aha* 244  
*evansianum*, *Rhopalum* (*Corynopus*) 267  
*everardensis*, *Australodynerus merredinensis* 168  
*evictum*, *Rhopalum* (*Corynopus*) 267  
*exarmatus*, *Acarodynerus* 163  
*exarmatus*, *Odynerus* (*Stenodynerus*) 163  
*excellens*, *Paragia* 158  
*excisus*, *Paralastor vulpinus* 197  
*exclusum*, *Pison* (*Parapison*) 259  
*exclusum*, *Pison* (*Pison*) 259  
*Exeirus* 283  
*Exeirus lateritius* 283  
*exilis*, *Odynerus* (*Leionotus*) 180  
*eximium*, *Trypoxylon* 264  
*eximium*, *Trypoxylon* (*Trypoxylon*) 264  
*eximius*, *Gorytes* 283  
*exleyae*, *Cerceris* 298  
*exornatum*, *Pison* 259  
*exornatum*, *Pison* (*Pison*) 259  
*expectatus*, *Dasyproctus* 274  
*extraneus*, *Leptomenoides* 180  
*extraneus*, *Odynerus* (*Leionotus*) 180  
*exul*, *Polemistus* 230  
*exultans*, *Pison* 259  
*exultans*, *Pison* (*Pison*) 259  
*eyrensis*, *Ammophila* 229  
  
*facilis*, *Polistes* 210  
*facilis*, *Polistes* (*Megapolistes*) 210  
*fallax*, *Paralastor* 188  
*famicum*, *Rhopalum* (*Corynopus*) 267  
*fanuiensis corallinus*, *Tachysphex* 239  
*fanuiensis howeanus*, *Tachysphex* 239  
*fanuiensis*, *Tachysphex* 239  
*fatalis*, *Tachytes* 237  
*femorata*, *Larra* (*Cratolarra*) 233  
*femoratus*, *Tachytes* 233  
*fenestratum*, *Pison* (*Pison*) 259  
*fenestratus*, *Pison* 259  
*ferruginea*, *Anacrucis* 252  
*ferruginea*, *Ischnocoelia* 178  
*ferrugineus*, *Antamenes* (*Australochilus*) 167  
*ferrugineus*, *Elimus* 178  
*ferrugineus*, *Sericophorus* (*Zoyphidium*) 252  
*festinans*, *Larrada* 235  
*festinans*, *Liris* (*Leptolarra*) 235

- festivum, Pison (Pison) 259  
 festivus, Pison 259  
 finschii, SpheX 224  
 finschii, SpheX (SpheX) 224  
 flammiger flammiger, Flammodynerus 177  
 flammiger, Flammodynerus 177  
 flammiger, Flammodynerus flammiger 177  
 flammiger nigroflammeus, Flammodynerus 177  
 flammiger, Odynerus 177  
 Flammodynerus 177  
 Flammodynerus flammiger 177  
 Flammodynerus flammiger flammiger 177  
 Flammodynerus flammiger nigroflammeus 177  
 Flammodynerus pseudoloris 177  
 Flammodynerus subalaris 177  
 flavescensculus, Bidentodynerus bicolor 170  
 flavescensculus, Odynerus (Rhynchium) bicolor 170  
 flaviceps, Alastor (Paralastor) 188  
 flaviceps, Paralastor 188  
 flavifrons, Bembex 287  
 flavifrons, Bembix 287  
 flavilabris, Bembex 285  
 flavinoda, Ropalidia (Icariola) interrupta 215  
 flavinoda, Ropalidia variegata 215  
 flavipes, Bembex 287  
 flavipes, Bembix 287  
 flavipes, Trypoxylon 264  
 flavipes, Trypoxylon (Trypoxylon) 264  
 flaviventris, Bembex 288  
 flaviventris, Bembix 288  
 flavocinctus, Odynerus 166  
 flavofasciatum, Zoyphium 252  
 flavofasciatus, Sericophorus (Zoyphidium) 252  
 flavolatera, Bembix 289  
 flavoniger, Antamenes (Australochilus) 167  
 fluctuans, Eumenes 176  
 fluvialis, Ancistrocerus 165  
 fluvialis, Cerceris 298  
 fluvialis, Odynerus (Ancistrocerus) 165  
 foliaceus, Tachysphex 240  
 forficata, Cerceris 298  
**Formicoidea** 151  
 formosa, SpheX 223  
 formosellus, SpheX 224  
 formosellus, SpheX (SpheX) 224  
 formosissimus, Tachytes 237  
 formosum, Sceliphron (Prosceliphron) 222  
 formosus, Pelopoeus 222  
 fortior, Tachysphex 240  
 frater, Paralastor 188  
 fraterculus, Pison 259  
 fraterculus, Pison (Pison) 259  
 fraternus, Alastor (Paralastor) 188  
 fraternus, Paralastor 188  
 frenchii, Austrogorytes 282  
 frenchii, Crabro (Rhopalum) 268  
 frenchii, Gorytes 282  
 frenchii, Rhopalum (Corynopus) 268  
 froggatti, Cerceris 298  
 froggatti, Paracrabro 232  
 froggatti, Sericophorus 247  
 froggatti, Sericophorus (Sericophorus) 247  
 frontale, Zoyphium 252  
 frontalis, Sericophorus (Zoyphidium) 252  
 fulleri, Sericophorus chalybaeus 246  
 fulleri, Sericophorus (Sericophorus) chalybaeus 246  
 fulva fulva, Ischnocoelia 178  
 fulva, Ischnocoelia 178  
 fulva, Ischnocoelia fulva 178  
 fulva major, Ischnocoelia 178  
 fulvicornis, Auchenophorus 257  
 fulvopruinosa, Ropalidia (Ropalidia) 213  
 fulvopruinosus, Odynerus (Leionotus) 213  
 fulvus, Stenolabus 178  
 fumipennis, SpheX 224  
 fumipennis, SpheX (SpheX) 224  
 funebris, Bembex 285  
 funebris, Sericophorus 247  
 funebris, Sericophorus (Sericophorus) 247  
 furcata, Bembex 288  
 furcata, Bembix 288  
 fuscata, Aphelotoma 219  
 fuscipenne, Pison (Pison) 259  
 fuscipenne, Zoyphium 252  
 fuscipennis, Pison 259  
 fuscipennis, Sericophorus (Zoyphidium) 252  
 galeatus, Tachysphex 240  
 gallicus, Polistes 209  
 Gastrosericus errans 244  
 gelane, Bembix 288  
 generosa, Paragia (Paragiella) 157  
 germanica, Vespa 208  
 germanica, Vespula (Paravespula) 208  
 gilberti, Acanthostethus 277  
 gilberti, Cerceris 299  
 gilberti, Euchalcomenes 176  
 gilberti, Eudiscoelius 176  
 gilberti, Nysson (Acanthostethus) 277  
 gilberti, SpheX 224  
 gilberti, SpheX (SpheX) 224  
 gilesi, Cerceris 299  
 ginjulla, Bembix 288  
 glabrellus, Arpactophilus 231  
 glabrellus, Austrostigmus 231  
 globosa, SpheX 227  
 globosus, Prionyx 227  
 goddardi, Cerceris 299  
 godeffroyi, SpheX 226  
 godeffroyi, SpheX (SpheX) sericeus 226  
 goodwini, Cerceris 296  
 Gorytes austrinus 284  
 Gorytes bellicosus 281  
 Gorytes ciliatus 281  
 Gorytes cygnorum 282  
 Gorytes decoratus 284  
 Gorytes dizonus 281  
 Gorytes duboulayi 279  
 Gorytes eximius 283  
 Gorytes frenchii 282  
 Gorytes icarioides 284  
 Gorytes lucidulus 279  
 Gorytes (Mischocyris) megalophthalmus 279  
 Gorytes ornatus 284  
 Gorytes perkinsi 282  
 Gorytes rufomixtus 281  
 Gorytes sanguinolentus 280  
 Gorytes tarsatus 283  
 gorytoides, Bembecinus 284



- gorytoides, Stizus 284  
 goyarra, Bembix 288  
 gracilenta, Ropalidia (Icariola) 214  
 gracilis, Sericophorus 247  
 gracilis, Sericophorus (Sericophorus) 247  
 grahami, Rhopalum (Rhopalum) 266  
 gratiosa, Spheg 225  
 gratiosissimus, Spheg 225  
 gregaria gregaria, Ropalidia (Icariola) 214  
 gregaria, Icariola 215  
 gregaria, Ropalidia (Icariola) 214  
 gregaria, Ropalidia (Icariola) gregaria 214  
 gregaria spilocephala, Ropalidia (Icariola) 215  
 gunamarra, Bembix 288  
 gurindji, Bembix 288  
 guttatus, Arpactus (Miscothyris) 279  
 guttatus, Clitemnestra 279
- ha, Aha 244  
 habilis, Paralastor 188  
 hackeri, Antamenes (Australochilus) 167  
 hackeri, Sericophorus 246  
 hackeri, Sericophorus (Zoyphidium) 252  
 hackeri, Zoyphium 252  
 hackeriana, Cerceris 299  
 haemorrhoidalis, Liris (Leptolarra) 235  
 haemorrhoidalis magnifica, Liris (Leptolarra) 235  
 Harpactophilus 230  
 Harpactophilus arator 230  
 Harpactophilus kohlii 231  
 Harpactophilus steindachneri deserticolus 231  
 Harpactophilus sulcatus 231  
 Harpactophilus tricolor 232  
 Harpactopus saevus 228  
 harpax, Rhopalum (Corynopus) 268  
 harpax, Rhopalum (Rhopalum) 268  
 hebetescens, Crabro 276  
 hebetescens, Ectemnius (Hypocrabro) 276  
 hentyi, Acanthostethus 277  
 hentyi, Nysson 277  
 hilaris, Paralastor 188  
 hirsuta, Paragia 157  
 hirsuta, Paragia (Paragiella) 157  
 hirsuta, Ropalidia (Icariola) 215  
 hirtula, Bembecinus 285  
 hirtula, Larra 285  
 histrio, Leptomenoides 180  
 hobartia, Spilomena 232  
 hokarra, Bembix 288  
 hostilis, Antamenes (Australochilus) 167  
 howeanus, Tachysphex fanuiensis 239  
 humile, Zoyphium 253  
 humilis centrocontinentalis, Polistes 212  
 humilis centrocontinentalis, Polistes (Polistella) 212  
 humilis clarior, Polistes 212  
 humilis humilis, Polistes (Polistella) 212  
 humilis, Polistes (Polistella) 211  
 humilis, Polistes (Polistella) humilis 212  
 humilis pseudoscach, Polistes 212  
 humilis, Sericophorus (Zoyphidium) 253  
 humilis synoecus, Polistes (Polistella) 212  
 humilis, Vespa 212  
 humilis xanthorrhoeus, Polistes 212  
 huonense, Trypoxylon 264
- huonense, Trypoxylon (Trypoxylon) albitarsatum 264  
 hylaeoides, Astaurus 280  
 Hypocrabro 276  
 (Hypocrabro), Ectemnius 276  
 (Hypocrabro) hebetescens, Ectemnius 276  
 (Hypocrabro) mackayensis, Ectemnius 276  
 (Hypocrabro) reginellus, Ectemnius 276  
 hypoleius, Tachysphex 240  
 hypoleius, Tachytes 240
- Icariola 213  
 Icariola cabeti 217  
 Icariola deceptor 214  
 Icariola gregaria 215  
 Icariola jucunda 215  
 Icariola plebeja 216  
 Icariola revolutionalis 216  
 Icariola socialistica 216  
 Icariola spilocephala 215  
 Icariella 217  
 (Icariella) nigrior, Ropalidia 217  
 (Icariella) romandi cabeti, Ropalidia 217  
 (Icariella) romandi romandi, Ropalidia 217  
 (Icariella) romandi, Ropalidia 217  
 (Icariella), Ropalidia 217  
 icarioides, Ammatomus 284  
 icarioides, Gorytes 284  
 icarioides, Paralastor 188  
 icarioides, Pison (Aulacophilus) 263  
 icarioides, Pison (Pisonoides) 263  
 Icariola 214  
 (Icariola) darwini, Ropalidia 214  
 (Icariola) deceptor, Ropalidia 214  
 (Icariola) elegantula, Ropalidia 214  
 (Icariola) eurostoma, Ropalidia 214  
 (Icariola) gracilenta, Ropalidia 214  
 (Icariola) gregaria gregaria, Ropalidia 214  
 (Icariola) gregaria, Ropalidia 214  
 (Icariola) gregaria spilocephala, Ropalidia 215  
 (Icariola) hirsuta, Ropalidia 215  
 (Icariola) interrupta flavinoda, Ropalidia 215  
 (Icariola) interrupta interrupta, Ropalidia 215  
 (Icariola) interrupta, Ropalidia 215  
 (Icariola) kurandae, Ropalidia 215  
 (Icariola) mackayensis, Ropalidia 215  
 (Icariola) marginata jucunda, Ropalidia 215  
 (Icariola) marginata, Ropalidia 215  
 (Icariola) mutabilis mutabilis, Ropalidia 216  
 (Icariola) mutabilis, Ropalidia 215  
 (Icariola) mutabilis torresiana, Ropalidia 216  
 (Icariola) plebiana, Ropalidia 216  
 (Icariola) proletaria, Ropalidia 216  
 (Icariola) revolutionalis, Ropalidia 216  
 (Icariola), Ropalidia 214  
 (Icariola) socialistica, Ropalidia 216  
 (Icariola) trichophthalma, Ropalidia 217  
 (Icariola) turneri, Ropalidia 217  
 idoneus, Crabro (Rhopalum) 272  
 idoneus, Notocrabro 272  
 ignavum, Pison 260  
 ignavum, Pison (Pison) 260  
 ignotus, Paralastor 188  
 imbelle, Podagratus (Echuca) 270  
 imbelle, Rhopalum tricolor 270

- imbellis, Tachysphex 240  
 imitator, Paralastor 189  
 impatiens, Ammophila 229  
 imperialis, Spheg (Spheg) 226  
 impudicus, Australodynerus pusilloides 168  
 Incertae sedis 303  
 incola aruensis, Delta 171  
 incola aruensis, Eumenes (Delta) 171  
 incola, Delta 171  
 incola teleporus, Delta 171  
 incola teleporus, Eumenes 171  
 inconspicuum, Pison 260  
 inconspicuum, Pison (Pison) 260  
 indecoratus, Odynerus 181  
 inexpectata, Cerceris 299  
 infernalis, Alastor (Paralastor) 189  
 infernalis, Paralastor 189  
 infimus, Paralastor 189  
 infumatum, Pison 260  
 infumatum, Pison (Pison) 260  
 inornatus, Sericophorus 247  
 inornatus, Sericophorus (Sericophorus) 247  
 insignis, Discoelius 203  
 insignis, Pseudozethus 203  
 instabilis, Ammophila 229  
 insulae, Polistes (Polistella) bernardii 211  
 insulare priscum, Pison 261  
 insularis, Alastor (Paralastor) 189  
 insularis, Paralastor 189  
 insulicola, Cerceris 299  
 intaminata, Dicranorhina 237  
 intaminata, Piagetia 237  
 integer, Stenolabus 178  
 integra carnowi, Ischnocoelia 178  
 integra integra, Ischnocoelia 178  
 integra, Ischnocoelia 178  
 integra, Ischnocoelia integra 178  
 integra major, Ischnocoelia 178  
 interrupta flavinoda, Ropalidia (Icariola) 215  
 interrupta interrupta, Ropalidia (Icariola) 215  
 interrupta, Ropalidia (Icariola) 215  
 interrupta, Ropalidia (Icariola) interrupta 215  
 interrupta, Ropalidia variegata 215  
 interstitialis, Psenus 230  
 inviolatus, Epidodnerus tamarinus 175  
 iridescens, Spilomena 232  
 iridipenne, Allorhynchium 165  
 iridipenne, Pison 260  
 iridipenne, Pison (Pison) 260  
 iridipenne, Rhynchium 165  
 iridipenne, Zoyphium 253  
 iridipennis, Sericophorus (Zoyphidium) 253  
 iridis, Cerceris 300  
 Ischnocoelia 177  
 Ischnocoelia ecclesiastica 177  
 Ischnocoelia elongata 178  
 Ischnocoelia ferruginea 178  
 Ischnocoelia fulva 178  
 Ischnocoelia fulva fulva 178  
 Ischnocoelia fulva major 178  
 Ischnocoelia integra 178  
 Ischnocoelia integra carnowi 178  
 Ischnocoelia integra integra 178  
 Ischnocoelia integra major 178  
 Ischnocoelia occidentalis 178 , 179  
 Ischnocoelia occidentalis blumburyensis 179  
 Ischnocoelia occidentalis occidentalis 179  
 Ischnocoelia polychroma 179  
 Ischnocoelia robusta 179  
 Ischnocoelia robusta analis 179  
 Ischnocoelia robusta aurantiaca 179  
 Ischnocoelia robusta robusta 179  
 Ischnocoelia robusta unicolor 179  
 Ischnocoelia xanthochroma 179  
 Isodontia 226  
 Isodontia abdita 226  
 Isodontia abdita nugenti 226  
 (Isodontia) abdita nugenti, Spheg 226  
 Isodontia albohirta 226  
 (Isodontia) albohirtus, Spheg 226  
 Isodontia aurifrons 226  
 Isodontia nigella 227  
 Isodontia obscura 227  
 Isodontia vidua 227  
 jucunda, Icaria 215  
 jucunda, Ropalidia (Icariola) marginata 215  
 jugulatus, Antamenes (Australochilus) 167  
 kamulla, Bembix 288  
 Katamenes 176  
 kerangi, Rhopalum (Corynopus) 268  
 kerangi, Rhopalum (Rhopalum) 268  
 kiatae, Podagritus (Echuca) 271  
 koala, Cerceris 301  
 kohlii, Arpactophilus 231  
 kohlii, Harpactophilus 231  
 kohlii, Sericophorus (Zoyphidium) 253  
 kohlii, Zoyphium 253  
 kora, Bembix 289  
 krombeini, Podagritus (Echuca) 271  
 kuehlhorni, Rhopalum (Corynopus) 268  
 kuehlhorni, Rhopalum (Rhopalum) 268  
 kununurra, Bembix 289  
 kurandae, Nitela 256  
 kurandae, Ropalidia (Icariola) 215  
 labeculata, Cerceris 300  
 lachesis, Alastor 189  
 lachesis, Paralastor 189  
 laetum cygnorum, Sceliphron 221  
 laetum laetum, Sceliphron (Sceliphron) 221  
 laetum, Sceliphron (Sceliphron) 221  
 laetum, Sceliphron (Sceliphron) laetum 221  
 laetus, Paralastor 189  
 laetus, Pelopoeus 221  
 laevigata, Anacrucis 253  
 laevigatissimus, Polistes 211  
 laevigatissimus, Polistes (Stenopolistes) 211  
 laevigatus, Sericophorus (Zoyphidium) 253  
 lamellata, Bembex 289  
 lamellata, Bembix 289  
 lanio, Sphecius 283  
 Larra 233 , 234  
 Larra alecto 234  
 Larra (Cratolarra) 233  
 Larra (Cratolarra) femorata 233

- Larra hirtula* 285  
*Larra* (*Larra*) 233  
*(Larra)*, *Larra* 233  
*Larra* (*Larra*) *melanocnemis* 233  
*Larra melanocnemis* 233  
*(Larra) melanocnemis*, *Larra* 233  
*Larra psilocera* 233  
*Larra scelestus* 234  
*Larrada alecto* 234  
*Larrada chrysonota* 235  
*Larrada crassipes* 235  
*Larrada festinans* 235  
*Larrada nigripes* 236  
*Larissus* 255  
*Larissus abnormis* 255  
*Larissus azyx* 256  
*Larissus nedymus* 256  
*Larissus ricki* 256  
*lateritius*, *Alastor* (*Paralastor*) 190  
*lateritius*, *Exeirus* 283  
*lateritius*, *Paralastor* 190  
*latetergum*, *Ropalidia* (*Polistratus*) 214  
*latiberbis*, *Cerceris* 300  
*laticincta*, *Abispa* (*Abispa*) 161  
*latifasciata*, *Bembex* 289  
*latifasciata*, *Bembix* 289  
*latreillei*, *Delta* 172  
*latreillei*, *Delta latreillei* 172  
*latreillei*, *Eumenes* 172  
*latreillei latreillei*, *Delta* 172  
*leeuwinensis*, *Bembex* 289  
*leeuwinensis*, *Bembix* 289  
*legatus*, *Acarodynerus* 163  
*(Leionotus) alaris*, *Odynerus* 201  
*(Leionotus) bisulcatus*, *Odynerus* 166  
*(Leionotus) citreocinctus*, *Odynerus* 167  
*(Leionotus) clypeatus*, *Odynerus* 162  
*(Leionotus) concolor*, *Odynerus* 199  
*(Leionotus) decipiens*, *Odynerus* 173  
*(Leionotus) decoratus*, *Odynerus* 181  
*(Leionotus) diemensis*, *Odynerus* 173  
*(Leionotus) exilis*, *Odynerus* 180  
*(Leionotus) extraneus*, *Odynerus* 180  
*(Leionotus) fulvopruinosus*, *Odynerus* 213  
*(Leionotus) macilentus*, *Odynerus* 169  
*(Leionotus) nigrocinctus*, *Odynerus* 175  
*(Leionotus) succinctus*, *Odynerus* 202  
*(Leionotus) tamarinus*, *Odynerus* 175  
*(Leionotus) tasmaniensis*, *Odynerus* 175  
**Lepidoptera** 150 , 160 , 208  
*leptias*, *Paralastor* 190  
*Leptolarra* 234  
*(Leptolarra) abbreviata*, *Liris* 234  
*(Leptolarra) agitata*, *Liris* 234  
*(Leptolarra) basilissa*, *Liris* 235  
*(Leptolarra) chrysonota*, *Liris* 235  
*(Leptolarra) commixta*, *Liris* 235  
*(Leptolarra) festinans*, *Liris* 235  
*(Leptolarra) haemorrhoidalis*, *Liris* 235  
*(Leptolarra) haemorrhoidalis magnifica*, *Liris* 235  
*(Leptolarra)*, *Liris* 234  
*(Leptolarra) obliquetruncata*, *Liris* 236  
*(Leptolarra) recondita*, *Liris* 236  
*(Leptolarra) regina*, *Liris* 236  
*(Leptolarra) serena*, *Liris* 236  
*(Leptolarra) spathulifera*, *Liris* 236  
*Leptomenoides* 180  
*Leptomenoides cairnensis* 180  
*Leptomenoides extraneus* 180  
*Leptomenoides histrio* 180  
*Leptomenoides mackayensis* 180  
*Leptomenoides pachymeniformis* 180  
*Leptomenoides placidior* 180  
*Leptomenoides pronotalis* 180  
*leptospermi*, *Podagritus* (*Echuca*) 271  
*leptospermi*, *Rhopalum* 271  
*Lestica* 277  
*Lestica* (*Solenius*) 277  
*Lestica* (*Solenius*) *relicta* 277  
*lilacinus*, *Sericophorus* 247  
*lilacinus*, *Sericophorus* (*Sericophorus*) 247  
*Liris* 234 , 236  
*Liris australis* 236  
*Liris* (*Leptolarra*) 234  
*Liris* (*Leptolarra*) *abbreviata* 234  
*Liris* (*Leptolarra*) *agitata* 234  
*Liris* (*Leptolarra*) *basilissa* 235  
*Liris* (*Leptolarra*) *chrysonota* 235  
*Liris* (*Leptolarra*) *commixta* 235  
*Liris* (*Leptolarra*) *festinans* 235  
*Liris* (*Leptolarra*) *haemorrhoidalis* 235  
*Liris* (*Leptolarra*) *haemorrhoidalis magnifica* 235  
*Liris* (*Leptolarra*) *obliquetruncata* 236  
*Liris* (*Leptolarra*) *recondita* 236  
*Liris* (*Leptolarra*) *regina* 236  
*Liris* (*Leptolarra*) *serena* 236  
*Liris* (*Leptolarra*) *spathulifera* 236  
*Liris* (*Liris*) 234  
*(Liris)*, *Liris* 234  
*Liris* (*Liris*) *melania* 234  
*Liris magnifica* 235  
*Liris melania* 234  
*(Liris) melania*, *Liris* 234  
*Liris nigripes* 236  
*listrognatha*, *Cerceris* 300  
*littorale*, *Rhopalum* 268  
*littorale*, *Rhopalum* (*Corynopus*) 268  
*littoralis*, *Bembex* 289  
*littoralis*, *Bembix* 289  
*littoralis*, *Sericophorus* 247  
*littoralis*, *Sericophorus* (*Sericophorus*) 247  
*lobimana*, *Bembex* 290  
*lobimana*, *Bembix* 290  
*longebispinosa*, *Pseudepipona* (*Syneuodynerus*) 207  
*longebispinosa*, *Syneuodynerus* 207  
*longiceps*, *Spilomena* 232  
*longifrons*, *Microglossa* 233  
*longifrons*, *Spilomena* 233  
*loorea*, *Bembix* 290  
*lucidulus*, *Clitemnestra* 279  
*lucidulus*, *Gorytes* 279  
*lucidulus mimeticus*, *Mischocyris* 279  
*luctuosa*, *Sphex* 224  
*luctuosus*, *Sphex* (*Sphex*) 224  
*luculenta*, *Cerceris* 300  
*lunaris*, *Acarodynerus* 163  
*luteiventris*, *Spilomena* 233  
*lutescens*, *Pison* 260  
*lutescens*, *Pison* (*Pison*) 260  
*lutescens*, *Psen* 230



- Lyroda 218, 244  
 Lyroda errans 244  
 Lyroda michaelsoni 244  
 Lyroda michaelsoni michaelsoni 244  
 Lyroda michaelsoni tasmanica 244  
 Lyroda minima 245  
 Lyroda queenslandensis 245
- macilentus, Odynerus (Leionotus) 169  
 mackayensis, Bembex 291  
 mackayensis, Crabro 276  
 mackayensis, Ectemnius (Hypocrabro) 276  
 mackayensis, Elimus 174  
 mackayensis, Leptomenoides 180  
 mackayensis, Paralastor 190  
 mackayensis, Ropalidia (Icariola) 215  
 mackayensis, Tachysphex 240  
 Macrocalymma 180  
 Macrocalymma aliciae 180  
 Macrocalymma smithianum 181  
 macrocephalum, Rhopalum (Rhopalum) 266  
 macrocephalus, Rhopalum 266  
 maculata, Paragia 154  
 maculata, Rolandia 154  
 maculipennis, Tachysphex 240  
 maculiventris, Alastor (Paralastor) 190  
 maculiventris, Paralastor 190  
 magarra, Bembix 290  
 magdalena, Paragia 157  
 magdalena, Paragia (Paragiella) 157  
 magnifica, Liris 235  
 magnifica, Liris (Leptolarra) haemorrhoidalis 235  
 magnificum, Rhynchium 204  
 major, Ischnocoelia fulva 178  
 major, Ischnocoelia integra 178  
 malayanus, Polistes 210  
 maliki, Bembix 290  
 mandibulatum, Pison 260  
 mandibulatum, Pison (Pison) 260  
 manifestata, Williamsita (Androcrabro) 275  
 manifestatus, Crabro (Solenius) 275  
 manilae, Notogonia 235  
 marcellus, Podagritus (Echuca) 271  
 mareeba, Bembix 290  
 marginalis, Sphodrotes 254  
 marginata jucunda, Ropalidia (Icariola) 215  
 marginata, Ropalidia (Icariola) 215  
 marginatum, Pison (Pison) 260  
 marginatus, Pison 260  
 marhra, Bembix 290  
 marsupiat, Bembex 290  
 marsupiat, Bembix 290
- MASARIDAE** 150, 151, 154  
**Masarinae** 151  
 maximus, Tachysphex 241  
 meadewaldoensis, Abispa 161  
 mediocris, Pachycoelius 181  
 medius, Paralastor 190  
 meesi, Paralastor xerophilus 197  
 megacantha, Cerceris 300  
 megalophthalmus, Clitemnestra 279  
 megalophthalmus, Gorytes (Mischocytharus) 279  
 Megapolistes 209  
 (Megapolistes) balder, Polistes 209  
 (Megapolistes) erythrinus, Polistes 210  
 (Megapolistes) facilis, Polistes 210  
 (Megapolistes) olivaceus, Polistes 210  
 (Megapolistes), Polistes 209  
 (Megapolistes) schach, Polistes 210  
 (Megapolistes) tepidus, Polistes 210  
 (Megapolistes) tepidus tepidus, Polistes 210  
 melania, Liris 234  
 melania, Liris (Liris) 234  
 melanocephalum, Pison 260  
 melanocephalum, Pison (Pison) 260  
 melanocnemis, Larra 233  
 melanocnemis, Larra (Larra) 233  
 melanogaster, Aphelotoma 219  
 meridionale, Pison 260  
 meridionale, Pison (Pison) 260  
 merredinensis, Australodinynerus 168  
 merredinensis, Australodinynerus merredinensis 168  
 merredinensis, Cerceris 300  
 merredinensis everardensis, Australodinynerus 168  
 merredinensis merredinensis, Australodinynerus 168  
 merredinensis victoriensis, Australodinynerus 168  
 mesochloroides, Paralastor mesochlorus 190  
 mesochlorus mesochloroides, Paralastor 190  
 mesochlorus mesochlorus, Paralastor 190  
 mesochlorus, Paralastor 190  
 mesochlorus, Paralastor mesochlorus 190  
 metallescens, Sericophorus 247  
 metallescens, Sericophorus (Sericophorus) 247  
 Metaparagia 155  
 Metaparagia doddi 155  
 Metaparagia pictifrons 155  
 metathoracicus, Odynerus 200  
 metathoracicus, Pseudalastor 200  
 mianga, Bembix 290  
 micans, Ampulex 220  
 michaelsoni, Lyroda 244  
 michaelsoni, Lyroda michaelsoni 244  
 michaelsoni michaelsoni, Lyroda 244  
 michaelsoni tasmanica, Lyroda 244  
 micheneri, Notocrabro 272  
 Microglossa 232  
 Microglossa bimaculata 232  
 Microglossa longifrons 233  
 Microglossa rufitarsus 233  
 Microglossella 232  
 microgonias, Paralastor 190  
 militaris, Crabro (Rhopalum) 271  
 mimetica, Clitemnestra 279  
 mimetica, Paragia (Paragiella) 157  
 mimeticus, Mischocytharus lucidulus 279  
 mimulus, Sphex 225  
 mimulus, Sphex (Sphex) 225  
 mimus, Paralastor 190  
 mindanaonis, Trypoxylon 265  
 mindanaonis, Trypoxylon (Trypoxylon) 265  
 minima, Lyroda 245  
 minimus, Acanthostethus 277  
 minimus, Nysson (Acanthostethus) 277  
 minuscula, Cerceris 300  
 minutus, Sericophorus 248  
 minutus, Sericophorus (Sericophorus) 248  
 minya, Bembix 291  
 mirabile, Rhynchium 204  
 mirabile, Rygchium 204

- Miscothyris 279  
 (Miscothyris) guttatus, Arpactus 279  
 Miscothyris lucidulus mimeticus 279  
 (Miscothyris) megalophthalmus, Gorytes 279  
 Miscothyris perlucidus 279  
 (Miscothyris) plomleyi, Arpactus 280  
 Miscothyris thoracicus 280  
 mitis, Tachytes 238  
 modesta, Spheg 225  
 modestus, Spheg (Spheg) 225  
 moerens, Acanthostethus 277  
 moerens, Nysson (Acanthostethus) 277  
 mokari, Bembix 291  
 moma, Bembix 291  
 Monerebia 160  
 monodon, Bembecinus 284  
 monsticornis, Ancistrocerus (Subancistrocerus) 207  
 monsticornis, Subancistrocerus 207  
 montanus, Australozethus tasmaniensis 169  
 montanus, Pseudozethus tasmaniensis 169  
 Montezumia australensis 164  
 moonga, Bembix 291  
 morosa, Paragia 158  
 morosa, Paragia (Paragiella) 158  
 mullewanus, Podagritys (Echuca) 271  
 multicolor, Paralastor 191  
 multifasciatus, Tachysphex 241  
 multiguttata, Cerceris 301  
 mundurra, Bembix 291  
 munta, Bembix 291  
 musca, Bembex 291  
 musca, Bembix 291  
 mutabilis mutabilis, Ropalidia (Icariola) 216  
 mutabilis, Paralastor 191  
 mutabilis, Ropalidia (Icariola) 215  
 mutabilis, Ropalidia (Icariola) mutabilis 216  
 mutabilis torresiana, Ropalidia (Icariola) 216  
 mysticus, Acanthostethus 278  
 mysticus, Nysson 278  
  
 nasuta, Paragia 158  
 nasuta, Paragia (Paragiella) 158  
 nautarum, Alastor (Paralastor) 191  
 nautarum, Paralastor 191  
 nevoissi, Rhopalum (Corynopus) 268  
 nevoissi, Rhopalum (Rhopalum) 268  
 nedymus, Larrisson 256  
 nefarius, Tachysphex 241  
 neglecta, Williamsita (Androcrabro) 275  
 neglectus, Crabro 275  
 neglectus, Odynerus (Parodynerus) 191  
 neglectus, Paralastor 191  
 nemoralis, Sphodrotes 254  
 neochromus, Paralastor 191  
 Neodasyproctus 273  
 Neodasyproctus veitchi 273  
**Neuroptera** 218  
 nigella, Isodontia 227  
 nigella, Spheg 227  
 niger, Sericophorus (Zoyphidium) 253  
 nigricans, Nitela 256  
 nigricornis, Sericophorus relucens 249  
 nigricornis, Sericophorus (Sericophorus) relucens 249  
 nigricula, Aphelotoma 219  
 nigrior, Ropalidia (Icariella) 217  
 nigripes, Larrada 236  
 nigripes, Liris 236  
 nigratarsis, Delta 172  
 nigratarsis, Eumenes 172  
 nigrithorax, Australodynerus yanchepensis 206  
 nigrithorax, Stenodyneriellus yanchepensis 206  
 nigrocincta, Cerceris 297  
 nigrocinctoides, Bidentodynerus bicolor 170  
 nigrocinctoides, Odynerus (Rhynchium) bicolor 170  
 nigrocinctus, Epiodynerus 175  
 nigrocinctus, Epiodynerus nigrocinctus 175  
 nigrocinctus nigrocinctus, Epiodynerus 175  
 nigrocinctus, Odynerus (Leionotus) 175  
 nigroflammeus, Flammodynerus flammiger 177  
 nigrolimbatus, Rhynchium 204  
 nigromaculatus, Chimiloides 273  
 nigromaculatus, Crabro 273  
 nigropectinata, Bembix 291  
 nigropectinatus, Bembex 291  
 nigror, Sericophorus 248  
 nigror, Sericophorus (Sericophorus) 248  
 nigrum, Zoyphium 253  
 Nitela 256  
 Nitela australiensis 256  
 Nitela kurandae 256  
 Nitela nigricans 256  
 Nitela reticulata 256  
 Nitela sculpturata 256  
 nitidiventris, Spheg 225  
 nitidus, Pison 259  
 niveifrons, Sericophorus 248  
 niveifrons, Sericophorus (Sericophorus) 248  
 nocatunga, Riekia 154  
 noctulum, Pison (Parapison) 261  
 noctulum, Pison (Pison) 261  
 Nortonia amaliae 164  
 Nothosphecus 283  
 (Nothosphecus) pectoralis, Sphecus 283  
 (Nothosphecus), Sphecus 283  
 Notocrabro 272  
 Notocrabro idoneus 272  
 Notocrabro micheneri 272  
 notogeum, Rhopalum (Corynopus) 268  
 notogeum, Rhopalum (Rhopalum) 268  
 Notogonia abbreviata 234  
 Notogonia agitata 234  
 Notogonia basilissa 235  
 Notogonia commixta 235  
 Notogonia manilae 235  
 Notogonia obliquetruncata 236  
 Notogonia recondita 236  
 Notogonia regina 236  
 Notogonia retiaria 235  
 Notogonia serena 236  
 Notogonia spathulifera 236  
 Notorhopalum 269  
 (Notorhopalum) carnegiacum, Rhopalum 269  
 (Notorhopalum), Rhopalum 269  
 novarae, Tachysphex 241  
 novarae, Tachytes 241  
 novempunctatus, Stenodyneriellus 205  
 nudiventris, Acanthostethus 278  
 nudiventris, Nysson (Acanthostethus) 278  
 nugenti, Isodontia abdita 226

- nugenti, Spheg (Isodontia) abditus 226  
 Nysson (Acanthostethus) brisbanensis 277  
 Nysson (Acanthostethus) confertus 277  
 Nysson (Acanthostethus) gilberti 277  
 Nysson (Acanthostethus) minimus 277  
 Nysson (Acanthostethus) moerens 277  
 Nysson (Acanthostethus) nudiventris 278  
 Nysson (Acanthostethus) oblitteratus 278  
 Nysson (Acanthostethus) punctatissimus 278  
 Nysson (Acanthostethus) spiniger 278  
 Nysson (Acanthostethus) tasmanicus 278  
 Nysson (Acanthostethus) triangularis 279  
 Nysson hentyi 277  
 Nysson mysticus 278  
 Nysson portlandensis 278  
 Nysson saussurei 278  
  
 obesus, Arpactus 282  
 obesus, Austrogorytes 282  
 obiri, Bembix 291  
 oblique truncata, Liris (Leptolarra) 236  
 oblique truncata, Notogonia 236  
 obliquus, Pison 263  
 oblitteratus, Acanthostethus 278  
 oblitteratus, Nysson (Acanthostethus) 278  
 obscurella, Isodontia 227  
 obscurella, Spheg 227  
 occidentalis, Australozethus 169  
 occidentalis blumburyensis, Ischnocoelia 179  
 occidentalis, Ischnocoelia 178, 179  
 occidentalis, Ischnocoelia occidentalis 179  
 occidentalis occidentalis, Ischnocoelia 179  
 occidentalis, Paralastor 191  
 occidentalis, Sericophorus 248  
 occidentalis, Sericophorus (Sericophorus) 248  
 occidentalis, Sphodrotes 255  
 occidentata, Pseudepipona (Syneuodynerus) 207  
 occidentatus, Syneuodynerus 207  
 octosetosa, Bembix 292  
**Odonata** 218  
 odynericornis, Paralastor 191  
 odyneripennis, Paralastor 191  
 odyneroides, Paragia 158  
 odyneroides, Paragia (Paragiella) 158  
 odyneroides, Paralastor 191  
 Odynerus 160, 181  
 Odynerus alariformis 198  
 Odynerus alecto 181  
 Odynerus (Ancistroceroides) cruentus 185  
 Odynerus (Ancistroceroides) sanguinolentus 200  
 Odynerus (Ancistrocerus) alastoripennis 182  
 Odynerus (Ancistrocerus) fluvialis 165  
 Odynerus (Ancistrocerus) vernalis 166  
 Odynerus angulatus 201  
 Odynerus aurocinctus 183  
 Odynerus balyi 202  
 Odynerus bicolor 169  
 Odynerus bicoloratus 205  
 Odynerus bizonatus 198  
 (Odynerus) dietrichianus, Odynerus 162  
 Odynerus drewseni 181  
 Odynerus flammiger 177  
 Odynerus flavocinctus 166  
 Odynerus indecoratus 181  
 Odynerus (Leionotus) alaris 201  
 Odynerus (Leionotus) bisulcatus 166  
 Odynerus (Leionotus) citreocinctus 167  
 Odynerus (Leionotus) clypeatus 162  
 Odynerus (Leionotus) concolor 199  
 Odynerus (Leionotus) decipiens 173  
 Odynerus (Leionotus) decoratus 181  
 Odynerus (Leionotus) diemensis 173  
 Odynerus (Leionotus) exilis 180  
 Odynerus (Leionotus) extraneus 180  
 Odynerus (Leionotus) fulvopruinosus 213  
 Odynerus (Leionotus) macilentus 169  
 Odynerus (Leionotus) nigrocinctus 175  
 Odynerus (Leionotus) succinctus 202  
 Odynerus (Leionotus) tamarinus 175  
 Odynerus (Leionotus) tasmaniensis 175  
 Odynerus metathoracicus 200  
 Odynerus (Odynerus) dietrichianus 162  
 Odynerus (Parodynerus) neglectus 191  
 Odynerus polyphemus 177  
 Odynerus pusillus 168  
 Odynerus (Rhynchium) angulatus alexandriae 201  
 Odynerus (Rhynchium) bicolor aurantiopictus 170  
 Odynerus (Rhynchium) bicolor flavescens 170  
 Odynerus (Rhynchium) bicolor nigrocinctoides 170  
 Odynerus (Rhynchium) rubroviolaceus 194  
 Odynerus saucius 173  
 Odynerus splendidus 161  
 Odynerus (Stenodyneroides) subalaris 198  
 Odynerus (Stenodynerus) exarmatus 163  
 Odynerus (Stenodynerus) posttegulatus 163  
 Odynerus (Stenodynerus) spargovillensis 164  
 Odynerus subalaris 177  
 Odynerus triangulum 164  
 okiellus, Sericophorus (Sericophorus) teliferopodus 250  
 okiellus, Sericophorus teliferopodus 250  
 olba, Bembix 292  
 olivacea, Vespa 210  
 olivaceus, Polistes (Megapolistes) 210  
 oloris, Paralastor 192  
 oomborra, Bembix 292  
 opposita, Cerceris 301  
 optabilis, Paralastor 192  
 opulenta, Spheg 223  
 Orancistrocerus 181  
 ordinaria, Sphodrotes 255  
 ordinaria, Williamsita (Androcabro) 275  
 ordinarius, Crabro 275  
 ordinarius, Paralastor 192  
 orientalis, Paralastor 192  
 ornatum, Zoyphium 253  
 ornatus, Gorytes 284  
 ornatus, Sericophorus (Zoyphidium) 253  
 osculata, Cerceris 301  
 ourapilla, Bembix 292  
  
 Pachycoelius 181  
 Pachycoelius brevicornis 181  
 Pachycoelius carinatus 181  
 Pachycoelius mediocris 181  
 Pachymenes amicus 167  
 Pachymenes pseudoneotropicus 166  
 Pachymenes rectispina 166  
 Pachymenes tasmaniae 166



- Pachymenes vorticosus* 166  
*pachymeniformis*, *Leptomenoides* 180  
*pacificus*, *Tachysphex* 241  
*paganus*, *Pseudalastor tridentatus* 200  
*paleovaratus*, *Acarodynerus* 163  
*pallida*, *Pseudepipona* 202  
*pallidus*, *Paralastor* 192  
*palmata*, *Bembex* 292  
*palmata*, *Bembix* 292  
*Palmodes* 227  
*Palmodes australis* 227  
*Palmodes sagax* 227  
*palona*, *Bembix* 292  
*papuanum*, *Trypoxylon* 265  
*papuanum*, *Trypoxylon* (*Trypoxylon*) 265  
*Paracrabro* 232  
*Paracrabro froggatti* 232  
*Paragia* 155  
*Paragia australis* 156  
*Paragia bicolor* 157  
*Paragia bidens* 158  
*Paragia calida* 157  
*Paragia concinna* 159  
*Paragia* (*Cygnaea*) 155  
*Paragia* (*Cygnaea*) *vespiformis* 155  
*Paragia deceptor* 157  
*Paragia decipiens* 155  
*Paragia* (*Paragia*) *deciapiens aliciae*, *Paragia* 155  
*Paragia* (*Paragia*) *deciapiens decipiens*, *Paragia* 155  
*Paragia* (*Paragia*) *deciapiens*, *Paragia* 155  
*Paragia excellens* 158  
*Paragia hirsuta* 157  
*Paragia maculata* 154  
*Paragia magdalena* 157  
*Paragia morosa* 158  
*Paragia nasuta* 158  
*Paragia odyneroides* 158  
*Paragia* (*Paragia*) 155  
*Paragia* (*Paragia*) 155  
*Paragia* (*Paragia*) *deciapiens* 155  
*Paragia* (*Paragia*) *deciapiens aliciae* 155  
*Paragia* (*Paragia*) *deciapiens decipiens* 155  
*Paragia* (*Paragia*) *schulthessi* 156  
*Paragia* (*Paragia*) *smithii* 156  
*Paragia* (*Paragia*) *tricolor* 156  
*Paragia* (*Paragiella*) 156  
*Paragia* (*Paragiella*) *australis* 156  
*Paragia* (*Paragiella*) *australis australis* 156  
*Paragia* (*Paragiella*) *australis borealis* 156  
*Paragia* (*Paragiella*) *bicolor* 157  
*Paragia* (*Paragiella*) *calida* 157  
*Paragia* (*Paragiella*) *deceptrix* 157  
*Paragia* (*Paragiella*) *generosa* 157  
*Paragia* (*Paragiella*) *hirsuta* 157  
*Paragia* (*Paragiella*) *magdalena* 157  
*Paragia* (*Paragiella*) *mimetica* 157  
*Paragia* (*Paragiella*) *morosa* 158  
*Paragia* (*Paragiella*) *nasuta* 158  
*Paragia* (*Paragiella*) *odyneroides* 158  
*Paragia* (*Paragiella*) *perkinsi* 158  
*Paragia* (*Paragiella*) *propodealis* 158  
*Paragia* (*Paragiella*) *sobrina* 158  
*Paragia* (*Paragiella*) *venusta* 159  
*Paragia* (*Paragiella*) *walkeri* 159  
*Paragia perkinsi* 158  
*Paragia pictifrons* 155  
*Paragia praedator* 158  
*Paragia saussurii* 156  
*Paragia schulthessi* 156  
*Paragia* (*Paragia*) *schulthessi*, *Paragia* 156  
*Paragia smithii* 156  
*Paragia smithii*, *Paragia* 156  
*Paragia sobrina* 158  
*Paragia tricolor* 156  
*Paragia* (*Paragia*) *tricolor*, *Paragia* 156  
*Paragia venusta* 159  
*Paragia vespiformis* 155  
*Paragia walkeri* 159  
*Paragiella* 156  
*Paragiella* (*Paragiella*) *australis australis*, *Paragia* 156  
*Paragiella* (*Paragiella*) *australis borealis*, *Paragia* 156  
*Paragiella* (*Paragiella*) *australis*, *Paragia* 156  
*Paragiella* (*Paragiella*) *bicolor*, *Paragia* 157  
*Paragiella* (*Paragiella*) *calida*, *Paragia* 157  
*Paragiella* (*Paragiella*) *deceptrix*, *Paragia* 157  
*Paragiella* (*Paragiella*) *generosa*, *Paragia* 157  
*Paragiella* (*Paragiella*) *hirsuta*, *Paragia* 157  
*Paragiella* (*Paragiella*) *magdalena*, *Paragia* 157  
*Paragiella* (*Paragiella*) *mimetica*, *Paragia* 157  
*Paragiella* (*Paragiella*) *morosa*, *Paragia* 158  
*Paragiella* (*Paragiella*) *nasuta*, *Paragia* 158  
*Paragiella* (*Paragiella*) *odyneroides*, *Paragia* 158  
*Paragiella* (*Paragiella*), *Paragia* 156  
*Paragiella* (*Paragiella*) *perkinsi*, *Paragia* 158  
*Paragiella* (*Paragiella*) *propodealis*, *Paragia* 158  
*Paragiella* (*Paragiella*) *sobrina*, *Paragia* 158  
*Paragiella* (*Paragiella*) *venusta*, *Paragia* 159  
*Paragiella* (*Paragiella*) *walkeri*, *Paragia* 159  
*paragioides*, *Abispa* 199  
*paragioides*, *Pseudabispa* 199  
*Paralastor* 160, 182  
*Paralastor abnormis* 182  
*Paralastor aequifasciatus* 182  
*Paralastor alastoripennis* 182  
*Paralastor albifrons* 182  
*Paralastor alexandriae* 182  
*Paralastor anostreptus* 183  
*Paralastor arenicola* 183  
*Paralastor argentifrons* 183  
*Paralastor argyrias* 183  
*Paralastor aterimus* 183  
*Paralastor atripennis* 183  
*Paralastor aurocinctus* 183  
*Paralastor auster* 184  
*Paralastor australis* 184  
*Paralastor bicarinatus* 184  
*Paralastor bischoffi* 184  
*Paralastor brisbanensis* 184  
*Paralastor brunneus* 184  
*Paralastor* (*Paralastor*) *brunneus*, *Alastor* 184  
*Paralastor caprai* 184  
*Paralastor carinatus* 184  
*Paralastor clypeopunctatus* 184  
*Paralastor commutatus* 185  
*Paralastor comptus* 185  
*Paralastor comptus comptus* 185  
*Paralastor comptus rubescens* 185  
*Paralastor conspiciendus* 185  
*Paralastor conspicuus* 185  
*Paralastor constrictus* 185

*Paralastor cruentatus* 185  
 (Paralastor) *cruentatus*, *Alastor* 185  
*Paralastor cruentus* 185  
*Paralastor darwinianus* 186  
*Paralastor debilis* 186  
*Paralastor debilitatus* 186  
*Paralastor dentiger* 186  
*Paralastor despectus* 186  
*Paralastor diabolicus* 186  
*Paralastor diadema* 186  
*Paralastor donatus* 186  
*Paralastor dubiosus* 186  
*Paralastor dyscritias* 187  
*Paralastor elegans* 187  
*Paralastor emarginatus* 187  
*Paralastor eriurgus* 187  
*Paralastor euclidias* 187  
*Paralastor eugonias* 187  
*Paralastor eustomus* 187  
*Paralastor eutretus* 188  
*Paralastor fallax* 188  
*Paralastor flaviceps* 188  
 (Paralastor) *flaviceps*, *Alastor* 188  
*Paralastor frater* 188  
*Paralastor fraternus* 188  
 (Paralastor) *fraternus*, *Alastor* 188  
*Paralastor habilis* 188  
*Paralastor hilaris* 188  
*Paralastor icarioides* 188  
*Paralastor ignotus* 188  
*Paralastor imitator* 189  
*Paralastor infernalis* 189  
 (Paralastor) *infernalis*, *Alastor* 189  
*Paralastor infimus* 189  
*Paralastor insularis* 189  
 (Paralastor) *insularis*, *Alastor* 189  
*Paralastor lachesis* 189  
*Paralastor laetus* 189  
*Paralastor lateritius* 190  
 (Paralastor) *lateritius*, *Alastor* 190  
*Paralastor leptias* 190  
*Paralastor mackayensis* 190  
*Paralastor maculiventris* 190  
 (Paralastor) *maculiventris*, *Alastor* 190  
*Paralastor medius* 190  
*Paralastor mesochlorus* 190  
*Paralastor mesochlorus mesochloroides* 190  
*Paralastor mesochlorus mesochlorus* 190  
*Paralastor microgonias* 190  
*Paralastor mimus* 190  
*Paralastor multicolor* 191  
*Paralastor mutabilis* 191  
*Paralastor nautarum* 191  
 (Paralastor) *nautarum*, *Alastor* 191  
*Paralastor neglectus* 191  
*Paralastor neochromus* 191  
*Paralastor occidentalis* 191  
*Paralastor odynericornis* 191  
*Paralastor odyneripennis* 191  
*Paralastor odyneroides* 191  
*Paralastor oris* 192  
*Paralastor optabilis* 192  
*Paralastor ordinarius* 192  
*Paralastor orientalis* 192  
*Paralastor pallidus* 192

*Paralastor parca* 192  
*Paralastor petiolatus* 192  
*Paralastor picteti* 192  
*Paralastor placens* 193  
*Paralastor plebeius* 193  
*Paralastor princeps* 193  
*Paralastor pseudochromus* 193  
*Paralastor punctulatus* 193  
*Paralastor pusillus* 193  
 (Paralastor) *pusillus*, *Alastor* 193  
*Paralastor roseotinctus* 194  
*Paralastor rubroviolaceus* 194  
*Paralastor rufipes* 194  
*Paralastor sanguineus* 194  
 (Paralastor) *sanguineus*, *Alastor* 194  
*Paralastor saussurei* 194  
*Paralastor semirufus* 194  
*Paralastor similimus* 194  
*Paralastor simplex* 194  
*Paralastor simulator* 194  
*Paralastor smithii* 195  
 (Paralastor) *smithii*, *Alastor* 195  
*Paralastor solitarius* 195  
*Paralastor subhabilis* 195  
*Paralastor submersus* 195  
*Paralastor subobscurus* 195  
*Paralastor suboloris* 195  
*Paralastor subplebeius* 195  
*Paralastor subpunctulatus* 195  
*Paralastor summus* 195  
*Paralastor synchronus* 195  
*Paralastor tasmaniensis* 196  
*Paralastor tricarinulatus* 196  
*Paralastor tricolor* 196  
 (Paralastor) *tridentatus*, *Alastor* 200  
*Paralastor tuberculatus* 196  
*Paralastor victor* 196  
*Paralastor viduus* 196  
*Paralastor vulneratus* 197  
 (Paralastor) *vulneratus*, *Alastor* 197  
*Paralastor vulpinus* 197  
 (Paralastor) *vulpinus*, *Alastor* 197  
*Paralastor vulpinus excisus* 197  
*Paralastor vulpinus vulpinus* 197  
*Paralastor xanthochromus* 197  
*Paralastor xanthus* 197  
*Paralastor xerophilus* 197  
*Paralastor xerophilus meesi* 197  
*Paralastor xerophilus xerophilus* 197  
*Paralastoroides* 165  
 (Parapison) *aberrans*, *Pison* 257  
 (Parapison) *caliginosum*, *Pison* 258  
 (Parapison) *erythrogastrum*, *Pison* 259  
 (Parapison) *exclusum*, *Pison* 259  
 (Parapison) *noctulum*, *Pison* 261  
 (Parapison) *pertinax*, *Pison* 261  
*Parapison ruficornis* 259  
 (Parapison) *simulans*, *Pison* 262  
 (Parapison) *tenebrosus*, *Pison* 263  
*Parapsammophila* 228  
*Parapsammophila eremophila* 228  
 (Parapsammophila) *eremophila*, *Ammophila* 228  
*Paravespula* 208  
 (Paravespula) *germanica*, *Vespula* 208  
 (Paravespula), *Vespula* 208

- (Paravespula) vulgaris, Vespula 209  
 parca, Alastor 192  
 parca, Paralastor 192  
 (Pareumenes) australensis, Eumenes 174  
 parificus, Parifodynerus 198  
 Parifodynerus 197  
 Parifodynerus alariformis 198  
 Parifodynerus parificus 198  
 Parodynerus 198  
 Parodynerus bicincta 198  
 (Parodynerus) neglectus, Odynerus 191  
 patongensis, Sericophorus 248  
 patongensis, Sericophorus (Sericophorus) 248  
 paucispina, Tachysphex 241  
 pectinipes, Bembex 292  
 pectinipes, Bembix 292  
 pectoralis, Sphecius (Nothosphecius) 283  
 pectoralis, Stizus 283  
 peletieri, Pison 261  
 peletieri, Pison (Pison) 261  
 Pelopoeus bengalensis 220  
 Pelopoeus formosus 222  
 Pelopoeus laetus 221  
 peratus, Podagritus (Echuca) 271  
 perkinsi, Austrogorytes 282  
 perkinsi, Cerceris 301  
 perkinsi, Gorytes 282  
 perkinsi, Paragia 158  
 perkinsi, Paragia (Paragiella) 158  
 perlucida, Pseudoturneria 272  
 perlucidus, Clitemnestra 279  
 perlucidus, Crabro 272  
 perlucidus, Miscothyris 279  
 perplexum, Pison (Pison) 261  
 perplexus, Pison 261  
 persistans, Tachysphex 241  
 pertinax, Pison (Parapison) 261  
 pertinax, Pison (Pison) 261  
 pescotti, Sericophorus 248  
 pescotti, Sericophorus (Sericophorus) 248  
 petiolatus, Paralastor 192  
 philantes, Delta 172  
 philantes, Eumenes 172  
 Piagetia intaminata 237  
 picteti, Alastor 192  
 picteti, Paralastor 192  
 picteti, Polistes tepidus 210  
 pictifrons, Metaparagia 155  
 pictifrons, Paragia 155  
 pikati, Bembix 293  
 piliferus, Chimiloides 273  
 pillara, Bembix 293  
 pilosellus, Sphodrotes 255  
 pilosulus, Tachysphex 241  
 Pison 218, 257  
 (Pison) aberrans, Pison 257  
 (Pison) areniferum, Pison 257  
 Pison (Aulacophilus) difficile 263  
 Pison (Aulacophilus) icarioides 263  
 (Pison) auratum, Pison 257  
 Pison auratus 257  
 Pison aureosericeum 257  
 (Pison) aureosericeum, Pison 257  
 Pison aurifex 257  
 (Pison) aurifex, Pison 257  
 Pison auriventre 258  
 (Pison) auriventre, Pison 258  
 Pison australis 262  
 (Pison) barbatum, Pison 258  
 (Pison) basale, Pison 258  
 Pison basalis 258  
 (Pison) caliginosum, Pison 258  
 (Pison) ciliatum, Pison 258  
 Pison congener 258  
 (Pison) congenerum, Pison 258  
 Pison decipiens 258  
 (Pison) decipiens, Pison 258  
 (Pison) deperditum, Pison 258  
 (Pison) dimidiatum, Pison 258  
 Pison dimidiatus 258  
 Pison dives 259  
 (Pison) dives, Pison 259  
 Pison erythrocerum 259  
 (Pison) erythrocerum, Pison 259  
 (Pison) erythrogastrium, Pison 259  
 (Pison) exclusum, Pison 259  
 Pison exornatum 259  
 (Pison) exornatum, Pison 259  
 Pison exultans 259  
 (Pison) exultans, Pison 259  
 (Pison) fenestratum, Pison 259  
 Pison fenestratus 259  
 (Pison) festivum, Pison 259  
 Pison festivus 259  
 Pison fraterculus 259  
 (Pison) fraterculus, Pison 259  
 (Pison) fuscipenne, Pison 259  
 Pison fuscipennis 259  
 Pison ignavum 260  
 (Pison) ignavum, Pison 260  
 Pison inconspicuum 260  
 (Pison) inconspicuum, Pison 260  
 Pison infumatum 260  
 (Pison) infumatum, Pison 260  
 Pison insulare priscum 261  
 Pison iridipenne 260  
 (Pison) iridipenne, Pison 260  
 Pison lutescens 260  
 (Pison) lutescens, Pison 260  
 Pison mandibulatum 260  
 (Pison) mandibulatum, Pison 260  
 (Pison) marginatum, Pison 260  
 Pison marginatus 260  
 Pison melanocephalum 260  
 (Pison) melanocephalum, Pison 260  
 Pison meridionale 260  
 (Pison) meridionale, Pison 260  
 Pison nitidus 259  
 (Pison) noctulum, Pison 261  
 Pison obliquus 263  
 Pison (Parapison) aberrans 257  
 Pison (Parapison) caliginosum 258  
 Pison (Parapison) erythrogastrium 259  
 Pison (Parapison) exclusum 259  
 Pison (Parapison) noctulum 261  
 Pison (Parapison) pertinax 261  
 Pison (Parapison) simulans 262  
 Pison (Parapison) tenebrosum 263  
 Pison peletieri 261  
 (Pison) peletieri, Pison 261



- (Pison) perplexum, Pison 261  
 Pison perplexus 261  
 (Pison) pertinax, Pison 261  
 Pison (Pison) 257  
 (Pison), Pison 257  
 Pison (Pison) aberrans 257  
 Pison (Pison) areniferum 257  
 Pison (Pison) auratum 257  
 Pison (Pison) aureosericeum 257  
 Pison (Pison) aurifex 257  
 Pison (Pison) auriventre 258  
 Pison (Pison) barbatum 258  
 Pison (Pison) basale 258  
 Pison (Pison) caliginosum 258  
 Pison (Pison) ciliatum 258  
 Pison (Pison) congenerum 258  
 Pison (Pison) decipiens 258  
 Pison (Pison) deperditum 258  
 Pison (Pison) dimidiatum 258  
 Pison (Pison) dives 259  
 Pison (Pison) erythrocerum 259  
 Pison (Pison) erythrogastrum 259  
 Pison (Pison) exclusum 259  
 Pison (Pison) exornatum 259  
 Pison (Pison) exultans 259  
 Pison (Pison) fenestratum 259  
 Pison (Pison) festivum 259  
 Pison (Pison) fraterculus 259  
 Pison (Pison) fuscipenne 259  
 Pison (Pison) ignavum 260  
 Pison (Pison) inconspicuum 260  
 Pison (Pison) infumatum 260  
 Pison (Pison) iridipenne 260  
 Pison (Pison) lutescens 260  
 Pison (Pison) mandibulatum 260  
 Pison (Pison) marginatum 260  
 Pison (Pison) melanocephalum 260  
 Pison (Pison) meridionale 260  
 Pison (Pison) noctulum 261  
 Pison (Pison) peletieri 261  
 Pison (Pison) perplexum 261  
 Pison (Pison) pertinax 261  
 Pison (Pison) priscum 261  
 Pison (Pison) pulchrinum 261  
 Pison (Pison) punctulatum 261  
 Pison (Pison) ruficorne 261  
 Pison (Pison) rufipes 262  
 Pison (Pison) scabrum 262  
 Pison (Pison) separatum 262  
 Pison (Pison) simillimum 262  
 Pison (Pison) simulans 262  
 Pison (Pison) spinolae 262  
 Pison (Pison) strenuum 262  
 Pison (Pison) tenebrosum 263  
 Pison (Pison) tibiale 263  
 Pison (Pison) vestitum 263  
 Pison (Pison) virosum 263  
 Pison (Pison) westwoodii 263  
 Pison (Pisonitus) deperditum 258  
 Pison (Pisonitus) ruficornis 261  
 Pison (Pisonitus) rufipes 262  
 Pison (Pisonoides) 263  
 Pison (Pisonoides) difficile 263  
 Pison (Pisonoides) icarioides 263  
 (Pison) priscum, Pison 261  
 Pison pulchrinum 261  
 (Pison) pulchrinum, Pison 261  
 Pison punctulatum 261  
 (Pison) punctulatum, Pison 261  
 (Pison) ruficorne, Pison 261  
 (Pison) rufipes, Pison 262  
 Pison scabrum 262  
 (Pison) scabrum, Pison 262  
 (Pison) separatum, Pison 262  
 Pison separatus 262  
 (Pison) simillimum, Pison 262  
 Pison simillimus 262  
 (Pison) simulans, Pison 262  
 Pison spinolae 262  
 (Pison) spinolae, Pison 262  
 Pison strenuum 262  
 (Pison) strenuum, Pison 262  
 Pison tasmanicus 262  
 (Pison) tenebrosum, Pison 263  
 (Pison) tibiale, Pison 263  
 Pison tibialis 263  
 (Pison) vestitum, Pison 263  
 Pison vestitus 263  
 Pison virosum 263  
 (Pison) virosum, Pison 263  
 Pison westwoodii 263  
 (Pison) westwoodii, Pison 263  
 (Pisonitus) deperditum, Pison 258  
 (Pisonitus) ruficornis, Pison 261  
 (Pisonitus) rufipes, Pison 262  
 Pisonoides 263  
 (Pisonoides) difficile, Pison 263  
 (Pisonoides) icarioides, Pison 263  
 (Pisonoides), Pison 263  
 Piyuma 273  
 Piyuma prosopoides 273  
 placens, Paralastor 193  
 placidior, Leptomenoides 180  
 platypus, Tachysphex 242  
 plebeius, Paralastor 193  
 plebeja, Icaria 216  
 plebiana, Ropalidia (Icariola) 216  
 pleuralis, Tachysphex 242  
 plomleyi, Arpactus (Miscothyris) 280  
 plomleyi, Clitemnestra 280  
 plutocraticus, Tachytes 238  
 Podagritus 269  
 Podagritus (Echuca) 269  
 Podagritus (Echuca) alevinus 269  
 Podagritus (Echuca) aliciae 269  
 Podagritus (Echuca) anerus 270  
 Podagritus (Echuca) australiensis 270  
 Podagritus (Echuca) burnsi 270  
 Podagritus (Echuca) carolus 270  
 Podagritus (Echuca) cornigerum 270  
 Podagritus (Echuca) cygnorum 270  
 Podagritus (Echuca) doreeni 270  
 Podagritus (Echuca) edgarus 270  
 Podagritus (Echuca) imbellis 270  
 Podagritus (Echuca) kiatae 271  
 Podagritus (Echuca) krombeini 271  
 Podagritus (Echuca) leptospermi 271  
 Podagritus (Echuca) marcellus 271  
 Podagritus (Echuca) mullewanus 271  
 Podagritus (Echuca) peratus 271

- Podagritus (Echuca) riei 271  
 Podagritus (Echuca) tricolor 271  
 Podagritus (Echuca) yarrowi 272  
 Podalonia 228  
 Podalonia tydei 228  
 Podalonia tydei suspiciosa 228  
 Polemistus 230  
 Polemistus exul 230  
 Polistella 211  
 (Polistella) bernardii bernardii, Polistes 211  
 (Polistella) bernardii duplicinctus, Polistes 211  
 (Polistella) bernardii insulae, Polistes 211  
 (Polistella) bernardii, Polistes 211  
 (Polistella) bernardii richardsi, Polistes 211  
 (Polistella) humilis centrocontinentalis, Polistes 212  
 (Polistella) humilis humilis, Polistes 212  
 (Polistella) humilis, Polistes 211  
 (Polistella) humilis synoecus, Polistes 212  
 (Polistella), Polistes 211  
 (Polistella) sgarambus, Polistes 212  
 (Polistella) townsvillensis austrinus, Polistes 213  
 (Polistella) townsvillensis, Polistes 212  
 (Polistella) townsvillensis townsvillensis, Polistes 212  
 (Polistella) variabilis, Polistes 213  
 Polistes 208, 209, 213  
 Polistes balder 209  
 Polistes bernardii 211  
 Polistes bernardii duplicinctus 213  
 Polistes bioculata 214  
 (Polistes) dominulus, Polistes 209  
 Polistes erythrinus 210  
 Polistes facilis 210  
 Polistes gallicus 209  
 Polistes humilis centrocontinentalis 212  
 Polistes humilis clarior 212  
 Polistes humilis pseudoscach 212  
 Polistes humilis xanthorrhoeus 212  
 Polistes laevigatissimus 211  
 Polistes malayanus 210  
 Polistes (Megapolistes) 209  
 Polistes (Megapolistes) balder 209  
 Polistes (Megapolistes) erythrinus 210  
 Polistes (Megapolistes) facilis 210  
 Polistes (Megapolistes) olivaceus 210  
 Polistes (Megapolistes) schach 210  
 Polistes (Megapolistes) tepidus 210  
 Polistes (Megapolistes) tepidus tepidus 210  
 Polistes (Polistella) 211  
 Polistes (Polistella) bernardii 211  
 Polistes (Polistella) bernardii bernardii 211  
 Polistes (Polistella) bernardii duplicinctus 211  
 Polistes (Polistella) bernardii insulae 211  
 Polistes (Polistella) bernardii richardsi 211  
 Polistes (Polistella) humilis 211  
 Polistes (Polistella) humilis centrocontinentalis 212  
 Polistes (Polistella) humilis humilis 212  
 Polistes (Polistella) humilis synoecus 212  
 Polistes (Polistella) sgarambus 212  
 Polistes (Polistella) townsvillensis 212  
 Polistes (Polistella) townsvillensis austrinus 213  
 Polistes (Polistella) townsvillensis townsvillensis 212  
 Polistes (Polistella) variabilis 213  
 Polistes (Polistes) 209  
 (Polistes), Polistes 209  
 Polistes (Polistes) dominulus 209  
 Polistes richardsi 211  
 Polistes romandi 217  
 Polistes sgarambus 212  
 Polistes (Stenopolistes) 210  
 Polistes (Stenopolistes) laevigatissimus 211  
 Polistes (Stenopolistes) riekii 211  
 Polistes synoecus 212, 213  
 Polistes tasmaniensis 212  
 Polistes tepidus picteti 210  
 Polistes townsvillensis 211, 212  
 Polistes tricolor 212  
 Polistes variabilis reginae 212  
 Polistinae 151  
 Polistratus 213  
 (Polistratus) latetergum, Ropalidia 214  
 (Polistratus), Ropalidia 213  
 polita australensis, Ectopioglossa 174  
 polita, Ectopioglossa 174  
 politus, Tachysphex 242  
 polychroma, Ischnocoelia 179  
 polyphemus, Euodynerus 177  
 polyphemus, Odynerus 177  
**Pompiloidea** 151  
 portlandensis, Acanthostethus 278  
 portlandensis, Nysson 278  
 positus, Diemodynerus decipiens 173  
 posttegulatus, Acarodynerus 163  
 posttegulatus, Odynerus (Stenodynerus) 163  
 praedator, Paragia 158  
 praedura, Cerceris 301  
 praetexta, Sphex 226  
 pretiosus, Arpactus 282  
 pretiosus, Austrogorytes 282  
 prima, Sphodrotes 255  
 princeps, Paralastor 193  
 princeps, Sphex 222  
 Prionyx 227  
 Prionyx globosus 227  
 Prionyx saevus 228  
 priscum, Pison insulare 261  
 priscum, Pison (Pison) 261  
 proletaria, Ropalidia (Icariola) 216  
 promontorii, Bembix 293  
 pronotalis, Leptomenoides 180  
 propodalaris, Acarodynerus 163  
 propodealis, Paragia (Paragiella) 158  
 Prosceliphron 222  
 (Prosceliphron) formosum, Sceliphron 222  
 (Prosceliphron), Sceliphron 222  
 prosopoides, Crabro 273  
 prosopoides, Piyuma 273  
 (Proterosphex) basilicus, Chlorion 223  
 (Proterosphex) rhodosoma, Chlorion 225  
 proteus, Tachysphex 242  
 Psen lutescens 230  
 Psenulus 229  
 Psenulus carinifrons 230  
 Psenulus carinifrons scutellatus 230  
 Psenulus interstitialis 230  
 Psenulus scutellatus 230  
 Pseudabispa 199  
 Pseudabispa confusa 199  
 Pseudabispa ephippioides 199  
 Pseudabispa paragioides 199  
 pseudacarodynerus, Diemodynerus 173

- Pseudalastor* 199  
*Pseudalastor anguloides* 199  
*Pseudalastor cavifemur* 199  
*Pseudalastor concolor* 199  
*Pseudalastor concolor concolor* 199  
*Pseudalastor concolor rapax* 200  
*Pseudalastor metathoracicus* 200  
*Pseudalastor superbus* 200  
*Pseudalastor tridentatus* 200  
*Pseudalastor tridentatus paganus* 200  
*Pseudalastor tridentatus septentrionalis* 200  
*Pseudalastor tridentatus transgrediens* 200  
*Pseudalastor tridentatus tridentatus* 200  
*pseudancistrocerus*, *Pseudonortonia* 206  
*pseudancistrocerus*, *Stenodyneriellus* 206  
*Pseudepipona* 201  
*Pseudepipona alaris* 201  
*Pseudepipona angulata* 201  
*Pseudepipona angulata alexandriae* 201  
*Pseudepipona angulata angulata* 201  
*Pseudepipona aspra* 201  
*(Pseudepipona) aspra*, *Pseudepipona* 201  
*Pseudepipona chartergiformis* 201  
*Pseudepipona clypalaris* 202  
*Pseudepipona pallida* 202  
*Pseudepipona (Pseudepipona) aspra* 201  
*Pseudepipona succincta* 202  
*Pseudepipona succincta purgata* 202  
*Pseudepipona succincta succincta* 202  
*Pseudepipona (Syneuodynerus) aurantiopilosella* 207  
*Pseudepipona (Syneuodynerus) longebispinosa* 207  
*Pseudepipona (Syneuodynerus) occidentata* 207  
*pseudochromus*, *Paralastor* 193  
*pseudoloris*, *Flammodynerus* 177  
*pseudoneotropicus*, *Antamenes (Antamenes)* 166  
*pseudoneotropicus*, *Pachymenes* 166  
*Pseudonortonia pseudancistrocerus* 206  
*pseudoscach*, *Polistes humilis* 212  
*pseudospinosus*, *Pseudozethus* 203  
*Pseudoturneria* 272  
*Pseudoturneria couloni* 272  
*Pseudoturneria perlucida* 272  
*Pseudoturneria territorialis* 272  
*Pseudozethus* 202  
*Pseudozethus australensis* 202  
*Pseudozethus confusus* 202  
*Pseudozethus ephippium* 202  
*Pseudozethus insignis* 203  
*Pseudozethus pseudospinosus* 203  
*Pseudozethus spinosus* 203  
*Pseudozethus tasmaniensis montanus* 169  
*Pseudozethus verreauxii* 203  
*psilocera*, *Larra* 233  
*pubescens*, *Tachysphex* 242  
*pugnator*, *Tachysphex* 242  
*pulchrinum*, *Pison* 261  
*pulchrinum*, *Pison (Pison)* 261  
*pulka*, *Bembix* 293  
*punctatissimus*, *Acanthostethus* 278  
*punctatissimus*, *Nysson (Acanthostethus)* 278  
*punctatissimus*, *Stenodyneriellus* 206  
*puncticeps*, *Tachysphex* 242  
*punctiventris*, *Australodynerus* 168  
*punctulatum*, *Pison* 261  
*punctulatum*, *Pison (Pison)* 261  
*punctulatus*, *Alastor* 193  
*punctulatus*, *Paralastor* 193  
*punctum*, *Ropalidia* 213  
*punctuosa*, *Anacrucis* 253  
*punctuosa*, *Sphodrotes* 255  
*punctuosus*, *Sericophorus (Zoyphidium)* 253  
*purgata*, *Pseudepipona succincta* 202  
*pusilloides*, *Australodynerus* 168  
*pusilloides*, *Australodynerus pusilloides* 168  
*pusilloides impudicus*, *Australodynerus* 168  
*pusilloides pusilloides*, *Australodynerus* 168  
*pusillum*, *Zoyphium* 253  
*pusillus*, *Alastor (Paralastor)* 193  
*pusillus*, *Australodynerus* 168  
*pusillus*, *Odynerus* 168  
*pusillus*, *Paralastor* 193  
*pusillus*, *Sericophorus (Zoyphidium)* 253  
  
*quadrangulum*, *Acarodynerus* 163  
*queenslandensis*, *Arpactophilus* 231  
*queenslandensis*, *Lyroda* 245  
*queenslandensis*, *Stigmaus* 231  
*queenslandicus*, *Acarodynerus* 163  
  
*rapax*, *Pseudalastor concolor* 200  
*raptor*, *Bembex* 294  
*raymenti*, *Cerceris* 301  
*raymenti*, *Sericophorus (Sericophorus)* 248  
*recondita*, *Liris (Leptolarra)* 236  
*recondita*, *Notogonia* 236  
*rectispina*, *Pachymenes* 166  
*regina*, *Liris (Leptolarra)* 236  
*regina*, *Notogonia* 236  
*reginae*, *Polistes variabilis* 212  
*reginellus*, *Ectemnius (Hypocrabro)* 276  
*relicta*, *Lestica (Solenius)* 277  
*relucens nigricornis*, *Sericophorus* 249  
*relucens nigricornis*, *Sericophorus (Sericophorus)* 249  
*relucens relucens*, *Sericophorus (Sericophorus)* 248  
*relucens ruficornis*, *Sericophorus* 249  
*relucens ruficornis*, *Sericophorus (Sericophorus)* 249  
*relucens*, *Sericophorus* 248  
*relucens*, *Sericophorus (Sericophorus)* 248  
*relucens*, *Sericophorus (Sericophorus) relucens* 248  
*relucens*, *Tachytes* 238  
*resplendens*, *Sphex* 225  
*resplendens*, *Sphex (Sphex)* 225  
*retiaria*, *Notogonia* 235  
*reticulata*, *Nitela* 256  
*reticulatus*, *Arpactophilus* 231  
*reticulatus*, *Austrostigmaus* 231  
*revolutionalis*, *Icaria* 216  
*revolutionalis*, *Ropalidia (Icariola)* 216  
*rhodosoma*, *Chlorion (Proterosphe)* 225  
*rhodosoma*, *Sphex (Sphex)* 225  
*Rhopalidia* 213  
*Rhopalum* 265  
*Rhopalum aliciae* 269  
*(Rhopalum) anteum*, *Rhopalum* 267  
*(Rhopalum) australiae*, *Rhopalum* 267  
*(Rhopalum) calixtum*, *Rhopalum* 265  
*(Rhopalum) conator*, *Crabro* 274  
*(Rhopalum) coriolum*, *Rhopalum* 267



- (Rhopalum) cornigerum, Rhopalum 270  
 Rhopalum (Corynopus) 267  
 Rhopalum (Corynopus) anteum 267  
 Rhopalum (Corynopus) australiae 267  
 Rhopalum (Corynopus) coriolum 267  
 Rhopalum (Corynopus) dedarum 267  
 Rhopalum (Corynopus) evansianum 267  
 Rhopalum (Corynopus) evictum 267  
 Rhopalum (Corynopus) famicum 267  
 Rhopalum (Corynopus) frenchii 268  
 Rhopalum (Corynopus) harpax 268  
 Rhopalum (Corynopus) kerangi 268  
 Rhopalum (Corynopus) kuehlhorni 268  
 Rhopalum (Corynopus) littorale 268  
 Rhopalum (Corynopus) nevoissi 268  
 Rhopalum (Corynopus) notogeum 268  
 Rhopalum (Corynopus) taeniatum 268  
 Rhopalum (Corynopus) tubarum 269  
 Rhopalum (Corynopus) variitarse 269  
 Rhopalum (Corynopus) xenum 269  
 Rhopalum cygnorum 270  
 (Rhopalum) dedarum, Rhopalum 267  
 (Rhopalum) dineurum, Rhopalum 266  
 Rhopalum eucalypti 266  
 (Rhopalum) eucalypti, Rhopalum 266  
 (Rhopalum) frenchii, Crabro 268  
 (Rhopalum) grahami, Rhopalum 266  
 (Rhopalum) harpax, Rhopalum 268  
 (Rhopalum) idoneus, Crabro 272  
 (Rhopalum) kerangi, Rhopalum 268  
 (Rhopalum) kuehlhorni, Rhopalum 268  
 Rhopalum leptospermi 271  
 Rhopalum littorale 268  
 (Rhopalum) macrocephalum, Rhopalum 266  
 Rhopalum macrocephalus 266  
 (Rhopalum) militaris, Crabro 271  
 (Rhopalum) nevoissi, Rhopalum 268  
 (Rhopalum) notogeum, Rhopalum 268  
 Rhopalum (Notorhopalum) 269  
 Rhopalum (Notorhopalum) carnegiacum 269  
 Rhopalum (Rhopalum) 265  
 (Rhopalum), Rhopalum 265  
 Rhopalum (Rhopalum) anteum 267  
 Rhopalum (Rhopalum) australiae 267  
 Rhopalum (Rhopalum) calixtum 265  
 Rhopalum (Rhopalum) coriolum 267  
 Rhopalum (Rhopalum) cornigerum 270  
 Rhopalum (Rhopalum) dedarum 267  
 Rhopalum (Rhopalum) dineurum 266  
 Rhopalum (Rhopalum) eucalypti 266  
 Rhopalum (Rhopalum) grahami 266  
 Rhopalum (Rhopalum) harpax 268  
 Rhopalum (Rhopalum) kerangi 268  
 Rhopalum (Rhopalum) kuehlhorni 268  
 Rhopalum (Rhopalum) macrocephalum 266  
 Rhopalum (Rhopalum) nevoissi 268  
 Rhopalum (Rhopalum) notogeum 268  
 Rhopalum (Rhopalum) taeniatum 268  
 Rhopalum (Rhopalum) tenuiventris 266  
 Rhopalum (Rhopalum) tepicum 266  
 Rhopalum (Rhopalum) testaceum 266  
 Rhopalum (Rhopalum) transiens 266  
 Rhopalum (Rhopalum) tubarum 269  
 Rhopalum (Rhopalum) tuberculicorne 266  
 Rhopalum (Rhopalum) verutum 266  
 Rhopalum (Rhopalum) xenum 269  
 Rhopalum spinulifer 272  
 (Rhopalum) taeniatum, Rhopalum 268  
 (Rhopalum) tenuiventris, Rhopalum 266  
 (Rhopalum) tenuiventris, Crabro 266  
 (Rhopalum) tepicum, Rhopalum 266  
 Rhopalum testaceum 266  
 (Rhopalum) testaceum, Rhopalum 266  
 (Rhopalum) transiens, Crabro 266  
 (Rhopalum) transiens, Rhopalum 266  
 Rhopalum tricolor imbelle 270  
 (Rhopalum) tubarum, Rhopalum 269  
 Rhopalum tuberculicorne 266  
 (Rhopalum) tuberculicorne, Rhopalum 266  
 Rhopalum variitarse 269  
 (Rhopalum) verutum, Rhopalum 266  
 (Rhopalum) xenum, Rhopalum 269  
 Rhynchium 203  
 Rhynchium abispoides 175  
 (Rhynchium) angulatus alexandriae, Odynerus 201  
 Rhynchium atrum 203  
 Rhynchium australense 204  
 (Rhynchium) bicolor aurantiopictus, Odynerus 170  
 (Rhynchium) bicolor flavescens, Odynerus 170  
 (Rhynchium) bicolor nigrocinctoides, Odynerus 170  
 Rhynchium decoratum 174  
 Rhynchium iridipenne 165  
 Rhynchium magnificum 204  
 Rhynchium mirabile 204  
 Rhynchium nigrolimbatum 204  
 Rhynchium rothi 204  
 (Rhynchium) rubroviolaceus, Odynerus 194  
 Rhynchium rufipes 204  
 Rhynchium superbum 205  
 rhynchocephalus, Tachysphex 243  
 richardsi, Polistes 211  
 richardsi, Polistes (Polistella) bernardii 211  
 riekii, Larrisson 256  
 riekii, Podagritus (Echuca) 271  
 Riekia 154  
 Riekia angulata 154  
 Riekia nocatunga 154  
 riekii, Williamsita 275  
 riekii, Williamsita (Androcrabro) 275  
 riekii, Polistes (Stenopolistes) 211  
 robusta analis, Ischnocoelia 179  
 robusta aurantiaca, Ischnocoelia 179  
 robusta, Ischnocoelia 179  
 robusta, Ischnocoelia robusta 179  
 robusta robusta, Ischnocoelia 179  
 robusta unicolor, Ischnocoelia 179  
 robustus, Elimus 179  
 roddii, Sericophorus (Sericophorus) viridis 251  
 roddii, Sericophorus viridis 251  
 Rolandia 154  
 Rolandia maculata 154  
 romandi cabeti, Ropalidia (Icarielia) 217  
 romandi, Polistes 217  
 romandi romandi, Ropalidia (Icarielia) 217  
 romandi, Ropalidia (Icarielia) 217  
 romandi, Ropalidia (Icarielia) romandi 217  
 Ropalidia 208, 213  
 (Ropalidia) eboraca, Ropalidia 213  
 (Ropalidia) fulvopruinosa, Ropalidia 213  
 Ropalidia (Icarielia) 217

- Ropalidia* (*Icarielia*) *nigrior* 217  
*Ropalidia* (*Icarielia*) *romandi* 217  
*Ropalidia* (*Icarielia*) *romandi cabeti* 217  
*Ropalidia* (*Icarielia*) *romandi romandi* 217  
*Ropalidia* (*Icariola*) 214  
*Ropalidia* (*Icariola*) *darwini* 214  
*Ropalidia* (*Icariola*) *deceptor* 214  
*Ropalidia* (*Icariola*) *elegantula* 214  
*Ropalidia* (*Icariola*) *euostoma* 214  
*Ropalidia* (*Icariola*) *gracilentula* 214  
*Ropalidia* (*Icariola*) *gregaria* 214  
*Ropalidia* (*Icariola*) *gregaria gregaria* 214  
*Ropalidia* (*Icariola*) *gregaria spilocephala* 215  
*Ropalidia* (*Icariola*) *hirsuta* 215  
*Ropalidia* (*Icariola*) *interrupta* 215  
*Ropalidia* (*Icariola*) *interrupta flavinoda* 215  
*Ropalidia* (*Icariola*) *interrupta interrupta* 215  
*Ropalidia* (*Icariola*) *kurandae* 215  
*Ropalidia* (*Icariola*) *mackayensis* 215  
*Ropalidia* (*Icariola*) *marginata* 215  
*Ropalidia* (*Icariola*) *marginata jucunda* 215  
*Ropalidia* (*Icariola*) *mutabilis* 215  
*Ropalidia* (*Icariola*) *mutabilis mutabilis* 216  
*Ropalidia* (*Icariola*) *mutabilis torresiana* 216  
*Ropalidia* (*Icariola*) *plebiana* 216  
*Ropalidia* (*Icariola*) *proletaria* 216  
*Ropalidia* (*Icariola*) *revolutionalis* 216  
*Ropalidia* (*Icariola*) *socialistica* 216  
*Ropalidia* (*Icariola*) *trichophthalma* 217  
*Ropalidia* (*Icariola*) *turneri* 217  
*Ropalidia* (*Polistratus*) 213  
*Ropalidia* (*Polistratus*) *latetergum* 214  
*Ropalidia punctum* 213  
(*Ropalidia*), *Ropalidia* 213  
*Ropalidia* (*Ropalidia*) 213  
*Ropalidia* (*Ropalidia*) *eboraca* 213  
*Ropalidia* (*Ropalidia*) *fulvopruinosa* 213  
*Ropalidia variegata flavinoda* 215  
*Ropalidia variegata interrupta* 215  
*ropalidioides*, *Cerceris* 301  
*roseotinctus*, *Paralastor* 194  
*rothi*, *Rhynchium* 204  
*rubellus*, *Tachytes* 238  
*rubescens*, *Paralastor comptus* 185  
*rubra*, *Sphodrotes* 255  
*rubricata*, *Sphodrotes* 255  
*rubricatus*, *Sphodrotes* 255  
*rubrosignatus*, *Argogorytes* 280  
*rubrosignatus*, *Arpactus* 280  
*rubroviolaceus*, *Odynerus* (*Rhynchium*) 194  
*rubroviolaceus*, *Paralastor* 194  
*ruficollis*, *Arpactophilus* 231  
*ruficollis*, *Austrostigmus* 231  
*ruficorne*, *Pison* (*Pison*) 261  
*ruficornis*, *Parapison* 259  
*ruficornis*, *Pison* (*Pisonitus*) 261  
*ruficornis*, *Sericophorus relucens* 249  
*ruficornis*, *Sericophorus* (*Sericophorus*) *relucens* 249  
*rufipes*, *Paralastor* 194  
*rufipes*, *Pison* (*Pison*) 262  
*rufipes*, *Pison* (*Pisonitus*) 262  
*rufipes*, *Rhynchium* 204  
*rufipes*, *Sericophorus* 248  
*rufipes*, *Vespa* 204  
*rufipes*, *Zoyphium* 249  
*rufitarsus*, *Microglossa* 233  
*rufitarsus*, *Spilomena* 233  
*rufiventris*, *Aphelotoma* 219  
*rufobasalis*, *Sericophorus* 249  
*rufobasalis*, *Sericophorus* (*Sericophorus*) 249  
*rufocaudatus*, *Acarodynerus dietrichianus* 162  
*rufofusca*, *Cerceris armigera* 297  
*rufomixtus*, *Argogorytes* 281  
*rufomixtus*, *Gorytes* 281  
*rufoniger*, *Sericophorus* (*Zoyphidium*) 253  
*rufonigrum*, *Zoyphium* 253  
*rufotibialis*, *Sericophorus* 249  
*rufotibialis*, *Sericophorus* (*Sericophorus*) 249  
*rigidorsatus*, *Tachysphex* 242  
*rugifer*, *Sphex* (*Sphex*) 225  
*rugosus*, *Sericophorus* 249  
*rugosus*, *Sericophorus* (*Sericophorus*) 249  
*Rygchium mirabile* 204  
*Rygchium superbum* 205  
  
*saeva*, *Cerceris* 296  
*saevus*, *Harpactopus* 228  
*saevus*, *Prionyx* 228  
*sagax*, *Palmodes* 227  
*sanguineus*, *Alastor* (*Paralastor*) 194  
*sanguineus*, *Paralastor* 194  
*sanguinolentus*, *Clitemnestra* 280  
*sanguinolentus*, *Gorytes* 280  
*sanguinolentus*, *Odynerus* (*Ancistroceroides*) 200  
*saucius*, *Diemodynerus* 173  
*saucius*, *Odynerus* 173  
*saussurei*, *Acanthostethus* 278  
*saussurei*, *Bembex* 287  
*saussurei*, *Nysson* 278  
*saussurei*, *Paralastor* 194  
*saussurii*, *Paragia* 156  
*scabrum*, *Pison* 262  
*scabrum*, *Pison* (*Pison*) 262  
*scelesta*, *Larra* 234  
*Sceliphron* 221  
(*Sceliphron*) *caementarium*, *Sceliphron* 221  
*Sceliphron laetum cygnorum* 221  
(*Sceliphron*) *laetum laetum*, *Sceliphron* 221  
(*Sceliphron*) *laetum*, *Sceliphron* 221  
*Sceliphron* (*Prosceliphron*) 222  
*Sceliphron* (*Prosceliphron*) *formosum* 222  
(*Sceliphron*), *Sceliphron* 221  
*Sceliphron* (*Sceliphron*) 221  
*Sceliphron* (*Sceliphron*) *caementarium* 221  
*Sceliphron* (*Sceliphron*) *laetum* 221  
*Sceliphron* (*Sceliphron*) *laetum laetum* 221  
*schach*, *Polistes* (*Megapolistes*) 210  
*schach*, *Vespa* 210  
*schmiedeknechti connexum*, *Trypoxylon* (*Trypoxylon*) 265  
*schmiedeknechti*, *Trypoxylon* (*Trypoxylon*) 265  
*schulthessi*, *Paragia* 156  
*schulthessi*, *Paragia* (*Paragia*) 156  
**Scolioides** 151  
*sculleni*, *Cerceris* 296 , 297  
*sculpturata*, *Nitela* 256  
*sculpturatus*, *Sericophorus* 249  
*sculpturatus*, *Sericophorus* (*Sericophorus*) 249  
*scutellatus*, *Psenulus* 230

- scutellatus, *Psenulus carinifrons* 230  
 secernendus, *Argogorytes* 281  
 secernendus, *Arpactus* 281  
 sedis, *Incertae* 303  
 sedula, *Cerceris* 302  
 semifossulatus, *Sphex* 225  
 semifossulatus, *Sphex* (*Sphex*) 225  
 semirufus, *Paralastor* 194  
 separatum, *Pison* (*Pison*) 262  
 separatus, *Pison* 262  
 septentrionalis, *Pseudalastor tridentatus* 200  
 serena, *Liris* (*Leptolarra*) 236  
 serena, *Notogonia* 236  
 sericeum, *Zoyphium* 253  
 sericeus *godeffroyi*, *Sphex* (*Sphex*) 226  
 sericeus, *Sericophorus* (*Zoyphidium*) 253  
 sericeus, *Sphex* (*Sphex*) 226  
*Sericogaster* 151  
*Sericophorus* 245  
*Sericophorus abnormis* 255  
*Sericophorus alicaeae* 245  
 (*Sericophorus*) *aliceae*, *Sericophorus* 245  
*Sericophorus bicolor* 245  
 (*Sericophorus*) *bicolor*, *Sericophorus* 245  
*Sericophorus brisbanensis* 245  
 (*Sericophorus*) *brisbanensis*, *Sericophorus* 245  
*Sericophorus carinatus* 245  
 (*Sericophorus*) *carinatus*, *Sericophorus* 245  
*Sericophorus castaneus* 245  
 (*Sericophorus*) *castaneus*, *Sericophorus* 245  
 (*Sericophorus*) *chalybaeus chalybaeus*, *Sericophorus* 246  
*Sericophorus chalybaeus fulleri* 246  
 (*Sericophorus*) *chalybaeus fulleri*, *Sericophorus* 246  
 (*Sericophorus*) *chalybaeus*, *Sericophorus* 246  
*Sericophorus chalybeus* 246  
*Sericophorus claviger burnsiellus* 246  
 (*Sericophorus*) *claviger burnsiellus*, *Sericophorus* 246  
 (*Sericophorus*) *claviger claviger*, *Sericophorus* 246  
 (*Sericophorus*) *claviger*, *Sericophorus* 246  
*Sericophorus cliffordi* 246  
 (*Sericophorus*) *cliffordi*, *Sericophorus* 246  
 (*Sericophorus*) *cockerelli*, *Sericophorus* 246  
*Sericophorus cyanophilus* 247  
 (*Sericophorus*) *cyanophilus*, *Sericophorus* 247  
*Sericophorus dipteroides* 252  
*Sericophorus elegantior* 247  
 (*Sericophorus*) *elegantior*, *Sericophorus* 247  
*Sericophorus froggatti* 247  
 (*Sericophorus*) *froggatti*, *Sericophorus* 247  
*Sericophorus funebris* 247  
 (*Sericophorus*) *funebris*, *Sericophorus* 247  
*Sericophorus gracilis* 247  
 (*Sericophorus*) *gracilis*, *Sericophorus* 247  
*Sericophorus hackeri* 246  
*Sericophorus inornatus* 247  
 (*Sericophorus*) *inornatus*, *Sericophorus* 247  
*Sericophorus lilacinus* 247  
 (*Sericophorus*) *lilacinus*, *Sericophorus* 247  
*Sericophorus littoralis* 247  
 (*Sericophorus*) *littoralis*, *Sericophorus* 247  
*Sericophorus metallescens* 247  
 (*Sericophorus*) *metallescens*, *Sericophorus* 247  
*Sericophorus minutus* 248  
 (*Sericophorus*) *minutus*, *Sericophorus* 248  
*Sericophorus nigror* 248  
 (*Sericophorus*) *nigror*, *Sericophorus* 248  
*Sericophorus niveifrons* 248  
 (*Sericophorus*) *niveifrons*, *Sericophorus* 248  
*Sericophorus occidentalis* 248  
 (*Sericophorus*) *occidentalis*, *Sericophorus* 248  
*Sericophorus patongensis* 248  
 (*Sericophorus*) *patongensis*, *Sericophorus* 248  
*Sericophorus pescotti* 248  
 (*Sericophorus*) *pescotti*, *Sericophorus* 248  
 (*Sericophorus*) *raymenti*, *Sericophorus* 248  
*Sericophorus relucens* 248  
*Sericophorus relucens nigricornis* 249  
 (*Sericophorus*) *relucens nigricornis*, *Sericophorus* 249  
 (*Sericophorus*) *relucens relucens*, *Sericophorus* 248  
*Sericophorus relucens ruficornis* 249  
 (*Sericophorus*) *relucens ruficornis*, *Sericophorus* 249  
 (*Sericophorus*) *relucens*, *Sericophorus* 248  
*Sericophorus rufipes* 248  
*Sericophorus rufobasalis* 249  
 (*Sericophorus*) *rufobasalis*, *Sericophorus* 249  
*Sericophorus rufotibialis* 249  
 (*Sericophorus*) *rufotibialis*, *Sericophorus* 249  
*Sericophorus rugosus* 249  
 (*Sericophorus*) *rugosus*, *Sericophorus* 249  
*Sericophorus sculpturatus* 249  
 (*Sericophorus*) *sculpturatus*, *Sericophorus* 249  
*Sericophorus* (*Sericophorus*) 245  
 (*Sericophorus*), *Sericophorus* 245  
*Sericophorus* (*Sericophorus*) *aliceae* 245  
*Sericophorus* (*Sericophorus*) *bicolor* 245  
*Sericophorus* (*Sericophorus*) *brisbanensis* 245  
*Sericophorus* (*Sericophorus*) *carinatus* 245  
*Sericophorus* (*Sericophorus*) *castaneus* 245  
*Sericophorus* (*Sericophorus*) *chalybaeus* 246  
*Sericophorus* (*Sericophorus*) *chalybaeus chalybaeus* 246  
*Sericophorus* (*Sericophorus*) *chalybaeus fulleri* 246  
*Sericophorus* (*Sericophorus*) *claviger* 246  
*Sericophorus* (*Sericophorus*) *claviger burnsiellus* 246  
*Sericophorus* (*Sericophorus*) *claviger claviger* 246  
*Sericophorus* (*Sericophorus*) *cliffordi* 246  
*Sericophorus* (*Sericophorus*) *cockerelli* 246  
*Sericophorus* (*Sericophorus*) *cyanophilus* 247  
*Sericophorus* (*Sericophorus*) *elegantior* 247  
*Sericophorus* (*Sericophorus*) *froggatti* 247  
*Sericophorus* (*Sericophorus*) *funebris* 247  
*Sericophorus* (*Sericophorus*) *gracilis* 247  
*Sericophorus* (*Sericophorus*) *inornatus* 247  
*Sericophorus* (*Sericophorus*) *lilacinus* 247  
*Sericophorus* (*Sericophorus*) *littoralis* 247  
*Sericophorus* (*Sericophorus*) *metallescens* 247  
*Sericophorus* (*Sericophorus*) *minutus* 248  
*Sericophorus* (*Sericophorus*) *nigror* 248  
*Sericophorus* (*Sericophorus*) *niveifrons* 248  
*Sericophorus* (*Sericophorus*) *occidentalis* 248  
*Sericophorus* (*Sericophorus*) *patongensis* 248  
*Sericophorus* (*Sericophorus*) *pescotti* 248  
*Sericophorus* (*Sericophorus*) *raymenti* 248  
*Sericophorus* (*Sericophorus*) *relucens* 248  
*Sericophorus* (*Sericophorus*) *relucens nigricornis* 249  
*Sericophorus* (*Sericophorus*) *relucens relucens* 248  
*Sericophorus* (*Sericophorus*) *relucens ruficornis* 249  
*Sericophorus* (*Sericophorus*) *rufobasalis* 249  
*Sericophorus* (*Sericophorus*) *rufotibialis* 249  
*Sericophorus* (*Sericophorus*) *rugosus* 249  
*Sericophorus* (*Sericophorus*) *sculpturatus* 249



- Sericophorus* (*Sericophorus*) *spryi* 249  
*Sericophorus* (*Sericophorus*) *subviridis* 249  
*Sericophorus* (*Sericophorus*) *sydneyi* 250  
*Sericophorus* (*Sericophorus*) *tallongensis* 250  
*Sericophorus* (*Sericophorus*) *teliferopodus* 250  
*Sericophorus* (*Sericophorus*) *teliferopodus okiellus* 250  
*Sericophorus* (*Sericophorus*) *teliferopodus teliferopodus* 250  
*Sericophorus* (*Sericophorus*) *victoriensis* 250  
*Sericophorus* (*Sericophorus*) *violaceus* 250  
*Sericophorus* (*Sericophorus*) *viridis* 250  
*Sericophorus* (*Sericophorus*) *viridis rodii* 251  
*Sericophorus* (*Sericophorus*) *viridis viridis* 250  
*Sericophorus* *spryi* 249  
(*Sericophorus*) *spryi*, *Sericophorus* 249  
*Sericophorus* *subviridis* 249  
(*Sericophorus*) *subviridis*, *Sericophorus* 249  
*Sericophorus* *sydneyi* 250  
(*Sericophorus*) *sydneyi*, *Sericophorus* 250  
*Sericophorus* *tallongensis* 250  
(*Sericophorus*) *tallongensis*, *Sericophorus* 250  
*Sericophorus* *teliferopodus* 250  
*Sericophorus* *teliferopodus okiellus* 250  
(*Sericophorus*) *teliferopodus okiellus*, *Sericophorus* 250  
(*Sericophorus*) *teliferopodus*, *Sericophorus* 250  
(*Sericophorus*) *teliferopodus teliferopodus*, *Sericophorus* 250  
*Sericophorus* *victoriensis* 250  
(*Sericophorus*) *victoriensis*, *Sericophorus* 250  
*Sericophorus* *violaceus* 250  
(*Sericophorus*) *violaceus*, *Sericophorus* 250  
*Sericophorus* *viridis rodii* 251  
(*Sericophorus*) *viridis rodii*, *Sericophorus* 251  
(*Sericophorus*) *viridis*, *Sericophorus* 250  
(*Sericophorus*) *viridis viridis*, *Sericophorus* 250  
*Sericophorus* (*Zoyphidium*) 251  
*Sericophorus* (*Zoyphidium*) *affinis* 251  
*Sericophorus* (*Zoyphidium*) *argyreus* 251  
*Sericophorus* (*Zoyphidium*) *asperithorax* 251  
*Sericophorus* (*Zoyphidium*) *cingulatus* 251  
*Sericophorus* (*Zoyphidium*) *clypeatus* 251  
*Sericophorus* (*Zoyphidium*) *collaris* 251  
*Sericophorus* (*Zoyphidium*) *crassicornis* 251  
*Sericophorus* (*Zoyphidium*) *dipteroides* 252  
*Sericophorus* (*Zoyphidium*) *doddi* 252  
*Sericophorus* (*Zoyphidium*) *emarginatus* 252  
*Sericophorus* (*Zoyphidium*) *erythrosoma* 252  
*Sericophorus* (*Zoyphidium*) *ferrugineus* 252  
*Sericophorus* (*Zoyphidium*) *flavofasciatus* 252  
*Sericophorus* (*Zoyphidium*) *frontalis* 252  
*Sericophorus* (*Zoyphidium*) *fuscipennis* 252  
*Sericophorus* (*Zoyphidium*) *hackeri* 252  
*Sericophorus* (*Zoyphidium*) *humilis* 253  
*Sericophorus* (*Zoyphidium*) *iridipennis* 253  
*Sericophorus* (*Zoyphidium*) *kohlii* 253  
*Sericophorus* (*Zoyphidium*) *laevigatus* 253  
*Sericophorus* (*Zoyphidium*) *niger* 253  
*Sericophorus* (*Zoyphidium*) *ornatus* 253  
*Sericophorus* (*Zoyphidium*) *punctuosus* 253  
*Sericophorus* (*Zoyphidium*) *pusillus* 253  
*Sericophorus* (*Zoyphidium*) *rufoniger* 253  
*Sericophorus* (*Zoyphidium*) *sericeus* 253  
*Sericophorus* (*Zoyphidium*) *splendidus* 254  
*Sericophorus* (*Zoyphidium*) *striatulus* 254  
*Sericophorus* (*Zoyphidium*) *tuberculatus* 254  
*severa*, *Bembex* 293  
*severa*, *Bembex* 293  
*sgarambus*, *Polistes* 212  
*sgarambus*, *Polistes* (*Polistella*) 212  
*siccata*, *Cerceris* 302  
*signatus*, *Bembecinus* 285  
*signatus*, *Stizus* 285  
*similis*, *Alastor* 193  
*simillimum*, *Pison* (*Pison*) 262  
*simillimus*, *Paralastor* 194  
*simillimus*, *Pison* 262  
*simplex*, *Paralastor* 194  
*simplicilamellatus*, *Eumenes* 176  
*simplicilamellatus*, *Eumenes* (*Eumenes*) 176  
*simulans*, *Pison* (*Parapison*) 262  
*simulans*, *Pison* (*Pison*) 262  
*simulator*, *Paralastor* 194  
*smithianum*, *Macrocalymma* 181  
*smithiensis*, *Williamsita* (*Androcrabro*) 275  
*smithii*, *Alastor* (*Paralastor*) 195  
*smithii*, *Paragia* 156  
*smithii*, *Paragia* (*Paragia*) 156  
*smithii*, *Paralastor* 195  
*sobrina*, *Paragia* 158  
*sobrina*, *Paragia* (*Paragiella*) 158  
*socialistica*, *Icaria* 216  
*socialistica*, *Ropalidia* (*Icariola*) 216  
*Solenius* 277  
(*Solenius*), *Lestica* 277  
(*Solenius*) *manifestatus*, *Crabro* 275  
(*Solenius*) *relicta*, *Lestica* 277  
*solitarius*, *Paralastor* 195  
*spargovillensis*, *Acarodynerus* 164  
*spargovillensis*, *Odynerus* (*Stenodynerus*) 164  
*spatulifera*, *Liris* (*Leptolarra*) 236  
*spatulifera*, *Notogonia* 236  
*spectrum*, *Acarodynerus* 164  
**SPHECIDAE** 151, 152, 160, 218  
*Sphecius* 283  
*Sphecius* *lanio* 283  
*Sphecius* (*Nothosphecius*) 283  
*Sphecius* (*Nothosphecius*) *pectoralis* 283  
**SPHECOIDEA** 150, 151, 152  
*Sphex* 222  
(*Sphex*) *ahasverus*, *Sphex* 222  
*Sphex* *amator* 223  
*Sphex* *argentatus* 222  
(*Sphex*) *argentatus*, *Sphex* 222  
*Sphex* *argentifrons* 225  
*Sphex* *aurifex* 226  
*Sphex* *aurifrons* 226  
*Sphex* *bannitus* 225  
(*Sphex*) *basilicus*, *Sphex* 223  
*Sphex* *bilobatus* 223  
(*Sphex*) *bilobatus*, *Sphex* 223  
*Sphex* *caementarium* 221  
*Sphex* *canescens* 223  
*Sphex* *carbonaria* 223  
*Sphex* *carbonicolor* 223  
(*Sphex*) *carbonicolor*, *Sphex* 223  
*Sphex* *clavigera* 222  
*Sphex* *clavus* 229  
*Sphex* *cognata* 223  
(*Sphex*) *cognatus*, *Sphex* 223  
*Sphex* *compressa* 220

*Sphex darwiniensis* 223  
*(Sphex) darwiniensis, Sphex* 223  
*Sphex decorata* 224  
*(Sphex) decoratus, Sphex* 224  
*(Sphex) dolichocerus, Sphex* 225  
*Sphex ephippium* 224  
*(Sphex) ephippium, Sphex* 224  
*(Sphex) ermineus, Sphex* 224  
*Sphex finschii* 224  
*(Sphex) finschii, Sphex* 224  
*Sphex formosa* 223  
*Sphex formosellus* 224  
*(Sphex) formosellus, Sphex* 224  
*Sphex fumipennis* 224  
*(Sphex) fumipennis, Sphex* 224  
*Sphex gilberti* 224  
*(Sphex) gilberti, Sphex* 224  
*Sphex globosa* 227  
*Sphex godeffroyi* 226  
*Sphex gratiosa* 225  
*Sphex gratiosissimus* 225  
*(Sphex) imperialis, Sphex* 226  
*Sphex (Isodontia) abditus nugenti* 226  
*Sphex (Isodontia) albohirtus* 226  
*Sphex luctuosa* 224  
*(Sphex) luctuosus, Sphex* 224  
*Sphex mimulus* 225  
*(Sphex) mimulus, Sphex* 225  
*Sphex modesta* 225  
*(Sphex) modestus, Sphex* 225  
*Sphex nigella* 227  
*Sphex nitidiventris* 225  
*Sphex obscurella* 227  
*Sphex opulenta* 223  
*Sphex praetexta* 226  
*Sphex princeps* 222  
*Sphex resplendens* 225  
*(Sphex) resplendens, Sphex* 225  
*(Sphex) rhodosoma, Sphex* 225  
*(Sphex) rugifer, Sphex* 225  
*Sphex semifossulatus* 225  
*(Sphex) semifossulatus, Sphex* 225  
*(Sphex) sericeus godeffroyi, Sphex* 226  
*(Sphex) sericeus, Sphex* 226  
*Sphex (Sphex)* 222  
*(Sphex), Sphex* 222  
*Sphex (Sphex) ahasverus* 222  
*Sphex (Sphex) argentatus* 222  
*Sphex (Sphex) basilius* 223  
*Sphex (Sphex) bilobatus* 223  
*Sphex (Sphex) carbonicolor* 223  
*Sphex (Sphex) cognatus* 223  
*Sphex (Sphex) darwiniensis* 223  
*Sphex (Sphex) decoratus* 224  
*Sphex (Sphex) dolichocerus* 225  
*Sphex (Sphex) ephippium* 224  
*Sphex (Sphex) ermineus* 224  
*Sphex (Sphex) finschii* 224  
*Sphex (Sphex) formosellus* 224  
*Sphex (Sphex) fumipennis* 224  
*Sphex (Sphex) gilberti* 224  
*Sphex (Sphex) imperialis* 226  
*Sphex (Sphex) luctuosus* 224  
*Sphex (Sphex) mimulus* 225  
*Sphex (Sphex) modestus* 225

*Sphex (Sphex) resplendens* 225  
*Sphex (Sphex) rhodosoma* 225  
*Sphex (Sphex) rugifer* 225  
*Sphex (Sphex) semifossulatus* 225  
*Sphex (Sphex) sericeus* 226  
*Sphex (Sphex) sericeus godeffroyi* 226  
*Sphex (Sphex) staudingeri* 226  
*Sphex (Sphex) vestitus* 226  
*Sphex staudingeri* 226  
*(Sphex) staudingeri, Sphex* 226  
*Sphex umbrosus* 222  
*Sphex vestita* 226  
*(Sphex) vestitus, Sphex* 226  
*Sphex vidua* 227  
*Sphex violacea* 220  
*Sphex wallacei* 225  
*Sphodrotes* 254  
*Sphodrotes acuticollis* 254  
*Sphodrotes cygnorum* 254  
*Sphodrotes dearmata* 254  
*Sphodrotes marginalis* 254  
*Sphodrotes nemoralis* 254  
*Sphodrotes occidentalis* 255  
*Sphodrotes ordinaria* 255  
*Sphodrotes pilosellus* 255  
*Sphodrotes prima* 255  
*Sphodrotes punctuosa* 255  
*Sphodrotes rubra* 255  
*Sphodrotes rubricata* 255  
*Sphodrotes rubricatus* 255  
*Sphodrotes splendens* 255  
*spilocephala, Icaria* 215  
*spilocephala, Ropalidia (Icariola) gregaria* 215  
*Spilomena* 218, 232  
*Spilomena australis* 232  
*Spilomena bimaculata* 232  
*Spilomena elegantula* 232  
*Spilomena hobartia* 232  
*Spilomena iridescent* 232  
*Spilomena longiceps* 232  
*Spilomena longifrons* 233  
*Spilomena luteiventris* 233  
*Spilomena rufitarsus* 233  
*spilota, Cerceris* 302  
*spinicornis, Arpactus* 282  
*spinicornis, Austrogorytes* 282  
*spiniger, Acanthostethus* 278  
*spiniger, Nysson (Acanthostethus)* 278  
*spinipleuris, Cerceris* 302  
*Spinocrabro* 272  
*spinolae, Pison* 262  
*spinolae, Pison (Pison)* 262  
*spinosusculus, Stenodyneriellus* 206  
*spinosus, Discoelius* 203  
*spinosus, Pseudozethus* 203  
*spinulifer, Rhopalum* 272  
*splendens, Sphodrotes* 255  
*splendida, Abispa (Abispa)* 161  
*splendida, Abispa (Abispa) splendida* 161  
*splendida australis, Abispa (Abispa)* 161  
*splendida splendida, Abispa (Abispa)* 161  
*splendidum, Zoyphium* 254  
*splendidus, Odynerus* 161  
*splendidus, Sericophorus (Zoyphidium)* 254  
*spryi, Arpactus* 282

- spryi, Austrogorytes 282  
 spryi, Sericophorus 249  
 spryi, Sericophorus (Sericophorus) 249  
 staudingeri, Sphex 226  
 staudingeri, Sphex (Sphex) 226  
 steindachneri, Arpactophilus 231  
 steindachneri, Arpactophilus steindachneri 231  
 steindachneri deserticolus, Arpactophilus 231  
 steindachneri deserticolus, Harpactophilus 231  
 steindachneri steindachneri, Arpactophilus 231  
 Stenodyneriellus 205  
 Stenodyneriellus bicoloratus 205  
 Stenodyneriellus brisbanensis 205  
 Stenodyneriellus carnavonensis 205  
 Stenodyneriellus darnleyensis 205  
 Stenodyneriellus novempunctatus 205  
 Stenodyneriellus pseudancistrocerus 206  
 Stenodyneriellus punctatissimus 206  
 Stenodyneriellus spinosiusculus 206  
 Stenodyneriellus tricoloratus 206  
 Stenodyneriellus turneriellus 206  
 Stenodyneriellus yanchepensis 206  
 Stenodyneriellus yanchepensis nigrithorax 206  
 Stenodyneriellus yanchepensis yanchepensis 206  
 (Stenodyneroides) subalaris, Odynerus 198  
 (Stenodynerus) exarmatus, Odynerus 163  
 (Stenodynerus) posttegulatus, Odynerus 163  
 (Stenodynerus) spargovillensis, Odynerus 164  
 Stenolabus fulvus 178  
 Stenolabus integer 178  
 Stenolabus vulneratus 179  
 Stenopolistes 210  
 (Stenopolistes) laevigatissimus, Polistes 211  
 (Stenopolistes), Polistes 210  
 (Stenopolistes) riekii, Polistes 211  
 stenopygus, Argogorytes 280  
 Stigmus queenslandensis 231  
 stimulator, Tachysphex 243  
 Stizus antipodum 284  
 Stizus egens 284  
 Stizus gorytoides 284  
 Stizus pectoralis 283  
 Stizus signatus 285  
 Stizus turneri 285  
 strenuum, Pison 262  
 strenuum, Pison (Pison) 262  
 striaticollis, Aphelotoma 219  
 striatula, Anacrusis 254  
 striatulus, Sericophorus (Zoyphidium) 254  
 subalaris, Flammodynerus 177  
 subalaris, Odynerus 177  
 subalaris, Odynerus (Stenodyneroides) 198  
 Subancistrocerus 206  
 Subancistrocerus monsticornis 207  
 (Subancistrocerus) monsticornis, Ancistrocerus 207  
 subhabilis, Paralastor 195  
 submersus, Paralastor 195  
 subobscurus, Paralastor 195  
 suboloris, Paralastor 195  
 subopacus, Tachysphex 243  
 subplebeius, Paralastor 195  
 subpunctulatus, Paralastor 195  
 subviridis, Sericophorus 249  
 subviridis, Sericophorus (Sericophorus) 249  
 succincta, Pseudepipona 202  
 succincta, Pseudepipona succincta 202  
 succincta purgata, Pseudepipona 202  
 succincta succincta, Pseudepipona 202  
 succinctus, Odynerus (Leionotus) 202  
 sulcatus, Arpactophilus 231  
 sulcatus, Harpactophilus 231  
 sulcatus, Tachytes 238  
 summus, Paralastor 195  
 superbum, Rhynchium 205  
 superbum, Rygchium 205  
 superbus, Pseudalastor 200  
 suspiciosa, Ammophila 228  
 suspiciosa, Podalonia tydei 228  
 sydneyi, Sericophorus 250  
 sydneyi, Sericophorus (Sericophorus) 250  
**Symphya** 160  
 synchronus, Paralastor 195  
 Syneuodynerus 207  
 (Syneuodynerus) aurantiopilosella, Pseudepipona 207  
 Syneuodynerus aurantiopilosellus 207  
 (Syneuodynerus) longebispinosa, Pseudepipona 207  
 Syneuodynerus longebispinosus 207  
 (Syneuodynerus) occidentata, Pseudepipona 207  
 Syneuodynerus occidentatus 207  
 synoecus, Polistes 212, 213  
 synoecus, Polistes (Polistella) humilis 212  
 Tachyrhostus claviger 246  
 Tachyrrhostus 245  
 Tachyrrhostus cyaneus 246  
 tachyrrhostus, Tachytes 238  
 Tachyrrhostus viridis 250  
 Tachysphex 238  
 Tachysphex aborigenus 238  
 Tachysphex adelaidae 240  
 Tachysphex brevicornis 238  
 Tachysphex buccalis 239  
 Tachysphex circulans 239  
 Tachysphex contrarius 239  
 Tachysphex debilis 243  
 Tachysphex depressiventris 239  
 Tachysphex discrepans 239  
 Tachysphex eucalypticus 239  
 Tachysphex fanuiensis 239  
 Tachysphex fanuiensis corallinus 239  
 Tachysphex fanuiensis howeanus 239  
 Tachysphex foliaceus 240  
 Tachysphex fortior 240  
 Tachysphex galeatus 240  
 Tachysphex hypoleius 240  
 Tachysphex imbellis 240  
 Tachysphex mackayensis 240  
 Tachysphex maculipennis 240  
 Tachysphex maximus 241  
 Tachysphex multifasciatus 241  
 Tachysphex nefarius 241  
 Tachysphex novarae 241  
 Tachysphex pacificus 241  
 Tachysphex paucispina 241  
 Tachysphex persistans 241  
 Tachysphex pilosulus 241  
 Tachysphex platypus 242  
 Tachysphex pleuralis 242  
 Tachysphex politus 242



- Tachysphex proteus 242  
 Tachysphex pubescens 242  
 Tachysphex pugnator 242  
 Tachysphex puncticeps 242  
 Tachysphex rhynchocephalus 243  
 Tachysphex rugidorsatus 242  
 Tachysphex stimulator 243  
 Tachysphex subopacus 243  
 Tachysphex tenuis 243  
 Tachysphex tenuisculptus 243  
 Tachysphex truncatifrons 243  
 Tachysphex vardyi 243  
 Tachysphex vividus 243  
 Tachysphex walkeri 244  
 Tachytes 237  
 Tachytes aestuans 237  
 Tachytes approximatus 237  
 Tachytes australis 236, 240  
 Tachytes codonocarpus 237  
 Tachytes dispersus 237  
 Tachytes fatalis 237  
 Tachytes femoratus 233  
 Tachytes formosissimus 237  
 Tachytes hypoleius 240  
 Tachytes mitis 238  
 Tachytes novarae 241  
 Tachytes plutocraticus 238  
 Tachytes relucens 238  
 Tachytes rubellus 238  
 Tachytes sulcatus 238  
 Tachytes tachyrrhostus 238  
 taeniatum, Rhopalum (Corynopis) 268  
 taeniatum, Rhopalum (Rhopalum) 268  
 tallongensis, Sericophorus 250  
 tallongensis, Sericophorus (Sericophorus) 250  
 tamarinus, Epiodynerus 175  
 tamarinus, Epiodynerus tamarinus 175  
 tamarinus inviolatus, Epiodynerus 175  
 tamarinus, Odynerus (Leionotus) 175  
 tamarinus tamarinus, Epiodynerus 175  
 tarsatus, Austrogorytes 283  
 tarsatus, Gorytes 283  
 tasmaniae, Antamenes (Antamenes) 166  
 tasmaniae, Pachymenes 166  
 tasmanica, Aphelotoma 219  
 tasmanica, Aphelotoma tasmanica 219  
 tasmanica auriventris, Aphelotoma 219  
 tasmanica, Lyroda michaelsoni 244  
 tasmanica tasmanica, Aphelotoma 219  
 tasmanica, Williamsita (Androcrabro) 276  
 tasmanicus, Acanthostethus 278  
 tasmanicus, Crabro 276  
 tasmanicus, Nysson (Acanthostethus) 278  
 tasmanicus, Pison 262  
 tasmaniensis, Alastor 196  
 tasmaniensis, Australozethus 169  
 tasmaniensis, Australozethus tasmaniensis 169  
 tasmaniensis, Epiodynerus 175  
 tasmaniensis montanus, Australozethus 169  
 tasmaniensis montanus, Pseudozethus 169  
 tasmaniensis, Odynerus (Leionotus) 175  
 tasmaniensis, Paralastor 196  
 tasmaniensis, Polistes 212  
 tasmaniensis tasmanicus, Australozethus 169  
 teleporus, Delta incola 171  
 teleporus, Eumenes incola 171  
 teliferopodus okiellus, Sericophorus 250  
 teliferopodus okiellus, Sericophorus (Sericophorus) 250  
 teliferopodus, Sericophorus 250  
 teliferopodus, Sericophorus (Sericophorus) 250  
 teliferopodus, Sericophorus (Sericophorus) teliferopodus 250  
 teliferopodus teliferopodus, Sericophorus (Sericophorus) 250  
 tenebrosum, Pison (Parapison) 263  
 tenebrosum, Pison (Pison) 263  
 tenuicornis, Astaurus 280  
 tenuicornis, Clitemnestra 280  
 tenuis, Tachysphex 243  
 tenuisculptus, Tachysphex 243  
 tenuiventris, Rhopalum (Rhopalum) 266  
 tenuiventris, Crabro (Rhopalum) 266  
 tepicum, Rhopalum (Rhopalum) 266  
 tepida, Vespa 210  
 tepidus, picteti, Polistes 210  
 tepidus, Polistes (Megapolistes) 210  
 tepidus, Polistes (Megapolistes) tepidus 210  
 tepidus tepidus, Polistes (Megapolistes) 210  
 territorialis, Pseudoturneria 272  
 testaceum, Rhopalum 266  
 testaceum, Rhopalum (Rhopalum) 266  
 thooma, Bembix 293  
 thoracicus, Clitemnestra 280  
 thoracicus, Miscothyris 280  
 tibiale, Pison (Pison) 263  
 tibialis, Pison 263  
 tibooburra, Bembix 293  
 tomentosum, Alyson 303  
 torresiana, Ropalidia (Icariola) mutabilis 216  
 townsvillensis austrinus, Polistes (Polistella) 213  
 townsvillensis, Polistes 211, 212  
 townsvillensis, Polistes (Polistella) 212  
 townsvillensis, Polistes (Polistella) townsvillensis 212  
 townsvillensis townsvillensis, Polistes (Polistella) 212  
 transgrediens, Pseudalastor tridentatus 200  
 transiens, Crabro (Rhopalum) 266  
 transiens, Rhopalum (Rhopalum) 266  
 transmarinum, Delta 172  
 transmarinus, Eumenes 172  
 trepida, Bembix 293  
 trepida, Bembix 293  
 triangularis, Acanthostethus 279  
 triangularis, Nysson (Acanthostethus) 279  
 triangulum, Acarodynerus 164  
 triangulum, Odynerus 164  
 tricarinulatus, Paralastor 196  
 trichophthalma, Ropalidia (Icariola) 217  
 tricolor, Arpactophilus 232  
 tricolor, Crabro 271  
 tricolor, Harpactophilus 232  
 tricolor imbellis, Rhopalum 270  
 tricolor, Paragia 156  
 tricolor, Paragia (Paragia) 156  
 tricolor, Paralastor 196  
 tricolor, Podagritus (Echuca) 271  
 tricolor, Polistes 212  
 tricoloratus, Stenodyneriellus 206  
 tridentatus, Alastor (Paralastor) 200  
 tridentatus, Crabro 275  
 tridentatus paganus, Pseudalastor 200

- tridentatus, *Pseudalastor* 200  
 tridentatus, *Pseudalastor tridentatus* 200  
 tridentatus septentrionalis, *Pseudalastor* 200  
 tridentatus transgrediens, *Pseudalastor* 200  
 tridentatus tridentatus, *Pseudalastor* 200  
 tridentifera, *Bembex* 292  
 trifida, *Cerceris* 302  
 truncatifrons, *Tachysphex* 243  
 Trypoxylon 264  
 (Trypoxylon) albitarsatum huonense, Trypoxylon 264  
 (Trypoxylon) albitarsatum, Trypoxylon 264  
 Trypoxylon bituberculatum 264  
 (Trypoxylon) bituberculatum, Trypoxylon 264  
 Trypoxylon connexum 265  
 Trypoxylon eximium 264  
 (Trypoxylon) eximium, Trypoxylon 264  
 Trypoxylon flavipes 264  
 (Trypoxylon) flavipes, Trypoxylon 264  
 Trypoxylon huonense 264  
 Trypoxylon mindanaonis 265  
 (Trypoxylon) mindanaonis, Trypoxylon 265  
 Trypoxylon papuanum 265  
 (Trypoxylon) papuanum, Trypoxylon 265  
 (Trypoxylon) schmiedeknechti connexum, Trypoxylon 265  
 (Trypoxylon) schmiedeknechti, Trypoxylon 265  
 (Trypoxylon), Trypoxylon 264  
 Trypoxylon (Trypoxylon) 264  
 Trypoxylon (Trypoxylon) albitarsatum 264  
 Trypoxylon (Trypoxylon) albitarsatum huonense 264  
 Trypoxylon (Trypoxylon) bituberculatum 264  
 Trypoxylon (Trypoxylon) eximium 264  
 Trypoxylon (Trypoxylon) flavipes 264  
 Trypoxylon (Trypoxylon) mindanaonis 265  
 Trypoxylon (Trypoxylon) papuanum 265  
 Trypoxylon (Trypoxylon) schmiedeknechti 265  
 Trypoxylon (Trypoxylon) schmiedeknechti connexum 265  
 tubarum, *Rhopalum* (*Corynopus*) 269  
 tubarum, *Rhopalum* (*Rhopalum*) 269  
 tuberculatum, *Zoyphium* 254  
 tuberculatus, *Alastor* 196  
 tuberculatus, *Paralastor* 196  
 tuberculatus, *Sericophorus* (*Zoyphidium*) 254  
 tuberculicorne, *Rhopalum* 266  
 tuberculicorne, *Rhopalum* (*Rhopalum*) 266  
 tuberculiventris, *Bembex* 294  
 tuberculiventris, *Bembex* 294  
 turneri, *Bembecinus* 285  
 turneri, *Ropalidia* (*Icariola*) 217  
 turneri, *Stizus* 285  
 turneriellus, *Stenodyneriellus* 206  
 Turneriola 272  
 tydei, *Podalonia* 228  
 tydei suspiciosa, *Podalonia* 228  
  
 uloola, *Bembex* 294  
 umbrosus, *Sphex* 222  
 undeneya, *Bembex* 294  
 unicolor, *Ischnocoelia robusta* 179  
 unispinosa, *Cerceris* 302  
  
 vardy, *Tachysphex* 243  
 variabilis, *Bembex* 294  
 variabilis, *Bembex* 294  
 variabilis, *Polistes* (*Polistella*) 213  
 variabilis reginae, *Polistes* 212  
 variabilis, *Vespa* 213  
 variegata flavinoda, *Ropalidia* 215  
 variegata interrupta, *Ropalidia* 215  
 variitarse, *Rhopalum* 269  
 variitarse, *Rhopalum* (*Corynopus*) 269  
 varipes, *Cerceris* 302  
 vedetta, *Williamsita* 276  
 vedetta, *Williamsita* (*Androcrabro*) 276  
 veitchi, *Crabro* 273  
 veitchi, *Neodasyproctus* 273  
 venusta, *Cerceris* 299, 302  
 venusta, *Paragia* 159  
 venusta, *Paragia* (*Paragiella*) 159  
 vernalis, *Antamenes* (*Antamenes*) 166  
 vernalis, *Odynerus* (*Ancistrocerus*) 166  
 verreauxii, *Discoelius* 203  
 verreauxii, *Pseudozethus* 203  
 verutum, *Rhopalum* (*Rhopalum*) 266  
 verutus, *Dasyproctus* 266  
*Vespa* (*Abispa*) australiana 161  
*Vespa albifrons* 182  
*Vespa arcuata* 170  
*Vespa bincta* 198  
*Vespa campaniformis* 171  
*Vespa dominula* 209  
*Vespa ephippium* 161  
*Vespa germanica* 208  
*Vespa humilis* 212  
*Vespa olivacea* 210  
*Vespa rufipes* 204  
*Vespa schach* 210  
*Vespa tepida* 210  
*Vespa variabilis* 213  
*Vespa vulgaris* 209  
**VESPIDAE** 150, 151, 152, 208  
 vespiformis, *Bembex* 294  
 vespiformis, *Bembex* 294  
 vespiformis, *Paragia* 155  
 vespiformis, *Paragia* (*Cygnaea*) 155  
**Vespinæ** 151  
**VESPOIDEA** 150, 151, 152  
*Vespula* 151, 208  
*Vespula* (*Paravespula*) 208  
*Vespula* (*Paravespula*) germanica 208  
*Vespula* (*Paravespula*) vulgaris 209  
 vestita, *Sphex* 226  
 vestitum, *Pison* (*Pison*) 263  
 vestitus, *Pison* 263  
 vestitus, *Sphex* (*Sphex*) 226  
 victor, *Paralastor* 196  
 victoriensis, *Australodynerus merredinensis* 168  
 victoriensis, *Bembex* 294  
 victoriensis, *Sericophorus* 250  
 victoriensis, *Sericophorus* (*Sericophorus*) 250  
 victrix, *Cerceris* 302  
 vidua, *Isodontia* 227  
 vidua, *Sphex* 227  
 viduus, *Paralastor* 196  
 violacea, *Sphex* 220  
 violaceus, *Sericophorus* 250  
 violaceus, *Sericophorus* (*Sericophorus*) 250

- viridis roddi, *Sericophorus* 251  
 viridis roddi, *Sericophorus* (*Sericophorus*) 251  
 viridis, *Sericophorus* (*Sericophorus*) 250  
 viridis, *Sericophorus* (*Sericophorus*) viridis 250  
 viridis, *Tachyrrhustus* 250  
 viridis viridis, *Sericophorus* (*Sericophorus*) 250  
 virosum, *Pison* 263  
 virosum, *Pison* (*Pison*) 263  
 vividus, *Tachysphex* 243  
 vorticosus, *Antamenes* (*Antamenes*) 166  
 vorticosus, *Pachymenes* 166  
 vulgaris, *Vespa* 209  
 vulgaris, *Vespula* (*Paravespula*) 209  
 vulneratus, *Alastor* (*Paralastor*) 197  
 vulneratus, *Paralastor* 197  
 vulneratus, *Stenolabus* 179  
 vulpinus, *Alastor* (*Paralastor*) 197  
 vulpinus excisus, *Paralastor* 197  
 vulpinus, *Paralastor* 197  
 vulpinus, *Paralastor* vulpinus 197  
 vulpinus vulpinus, *Paralastor* 197
- wadamiri, *Bembix* 294  
 walkeri, *Paragia* 159  
 walkeri, *Paragia* (*Paragiella*) 159  
 walkeri, *Tachysphex* 244  
 wallacei, *Sphex* 225  
 wangoola, *Bembix* 295  
 wanna, *Bembix* 295  
 warawara, *Bembix* 295  
 weema, *Bembix* 295  
 westwoodii, *Pison* 263  
 westwoodii, *Pison* (*Pison*) 263  
 wilcannia, *Bembix* 295  
 Williamsita 274  
 Williamsita (*Androcrabro*) 274  
 Williamsita (*Androcrabro*) bivittata 275  
 Williamsita (*Androcrabro*) bushiella 275  
 Williamsita (*Androcrabro*) manifestata 275  
 Williamsita (*Androcrabro*) neglecta 275  
 Williamsita (*Androcrabro*) ordinaria 275  
 Williamsita (*Androcrabro*) rikiella 275  
 Williamsita (*Androcrabro*) smithiensis 275  
 Williamsita (*Androcrabro*) tasmanica 276  
 Williamsita (*Androcrabro*) vedetta 276  
 Williamsita bushiella 275  
 Williamsita rikiella 275  
 Williamsita vedetta 276  
 wiluna, *Bembix* 295  
 windorum, *Cerceris* 303  
 wollowra, *Bembix* 295  
 wolpa, *Bembix* 295  
 wowine, *Bembix* 295
- xanthochroma, *Ischnocoelia* 179  
 xanthochromus, *Paralastor* 197  
 xanthorrhoeus, *Polistes humilis* 212  
 xanthura, *Cerceris* 303  
 xanthura, *Eumenes* 172  
 xanthurum, *Delta* 172  
 xanthurum, *Delta* xanthurum 172  
 xanthurum xanthurum, *Delta* 172  
 xanthus, *Paralastor* 197
- xenum, *Rhopalum* (*Corynopus*) 269  
 xenum, *Rhopalum* (*Rhopalum*) 269  
 xerophilus meesi, *Paralastor* 197  
 xerophilus, *Paralastor* 197  
 xerophilus, *Paralastor* xerophilus 197  
 xerophilus xerophilus, *Paralastor* 197
- yalta, *Bembix* 296  
 yanchepensis, *Australodryinus* 206  
 yanchepensis nigrithorax, *Australodryinus* 206  
 yanchepensis nigrithorax, *Stenodyneriellus* 206  
 yanchepensis, *Stenodyneriellus* 206  
 yanchepensis, *Stenodyneriellus* yanchepensis 206  
 yanchepensis yanchepensis, *Stenodyneriellus* 206  
 yarrowi, *Podagritus* (*Echuca*) 272  
 yorki, *Dasyproctus* 274  
 yunkara, *Bembix* 296
- ziegleri, *Cerceris* 296  
 Zoyphidium 251  
 (Zoyphidium) affinis, *Sericophorus* 251  
 (Zoyphidium) argyreus, *Sericophorus* 251  
 (Zoyphidium) asperithorax, *Sericophorus* 251  
 (Zoyphidium) cingulatus, *Sericophorus* 251  
 (Zoyphidium) clypeatus, *Sericophorus* 251  
 (Zoyphidium) collaris, *Sericophorus* 251  
 (Zoyphidium) crassicornis, *Sericophorus* 251  
 (Zoyphidium) dipteroides, *Sericophorus* 252  
 (Zoyphidium) doddi, *Sericophorus* 252  
 (Zoyphidium) emarginatus, *Sericophorus* 252  
 (Zoyphidium) erythrosoma, *Sericophorus* 252  
 (Zoyphidium) ferrugineus, *Sericophorus* 252  
 (Zoyphidium) flavofasciatus, *Sericophorus* 252  
 (Zoyphidium) frontalis, *Sericophorus* 252  
 (Zoyphidium) fuscipennis, *Sericophorus* 252  
 (Zoyphidium) hackeri, *Sericophorus* 252  
 (Zoyphidium) humilis, *Sericophorus* 253  
 (Zoyphidium) iridipennis, *Sericophorus* 253  
 (Zoyphidium) kohlii, *Sericophorus* 253  
 (Zoyphidium) laevigatus, *Sericophorus* 253  
 (Zoyphidium) niger, *Sericophorus* 253  
 (Zoyphidium) ornatus, *Sericophorus* 253  
 (Zoyphidium) punctuosus, *Sericophorus* 253  
 (Zoyphidium) pusillus, *Sericophorus* 253  
 (Zoyphidium) rufoniger, *Sericophorus* 253  
 (Zoyphidium) sericeus, *Sericophorus* 253  
 (Zoyphidium), *Sericophorus* 251  
 (Zoyphidium) splendidus, *Sericophorus* 254  
 (Zoyphidium) striatulus, *Sericophorus* 254  
 (Zoyphidium) tuberculatus, *Sericophorus* 254  
 Zoyphium 251  
 Zoyphium affine 251  
 Zoyphium argyreum 251  
 Zoyphium collare 251  
 Zoyphium crassicornis 251  
 Zoyphium doddi 252  
 Zoyphium emarginatum 252  
 Zoyphium erythrosoma 252  
 Zoyphium flavofasciatum 252  
 Zoyphium frontale 252  
 Zoyphium fuscipenne 252  
 Zoyphium hackeri 252  
 Zoyphium humile 253



Zoyphium iridipenne 253  
Zoyphium kohlii 253  
Zoyphium nigrum 253  
Zoyphium ornatum 253  
Zoyphium pusillum 253  
Zoyphium rufipes 249

Zoyphium rufonigrum 253  
Zoyphium sericeum 253  
Zoyphium splendidum 254  
Zoyphium tuberculatum 254  
Zuba 214

## Publication date of the previous volume

Volume 1      29 November 1983













ZOOLOGICAL CATALOGUE OF AUST



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